

10/774,355  
10/26/04

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accttctccc tcccctactg tggacccaat gttattgac accctctctg tgacatgcca 540
ccagtcacga gactgtcctg cactgactac catctcactg aggaggtggg ctttgctgtc 600
agtagttgca ttgtcatgag ctcatattgtc ctcacagtgg tctcctatat tggcattgtg 660
gccacagttc ttgcacatccc ctcagtagaa ggc 693
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<210> 967  
<211> 924  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR285-3P

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ggcaacatca cactgggtcat cctcatcagg ctggaccaa gactccacac ccccatgtac 180
tttctcctca gccagctctc catcatggac atgatgtaca tctccaccac tgtgcccag 240
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tatggacagg tatatagcca tctgcgcgac cttgcactac ccctgtgttc atgagcaggg 420
aagatctgct gctccatggt cgtggtgccc tggagcagca gctccatcac tgcacagtg 480
cacacagtg atgtgtttca acttccattc tgtggctcta ggatgggtta ccactttttc 540
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gtcctcgtga gtggacttgt cattctgatg ctcccccttc tggccatcct agcttctctat 660
gctcggatct tgggtgttgt actccagatg gggtcagggc agggacagag tagagctgtg 720
tccacctgct cctcacacct gactgtggcc agcctgttct atgtcaccac tctctccacc 780
tacaccagc cacacacctt gcattctcct ggaagggaca aagtgggtggc tgtgctctac 840
tcaatcgtca cccctgttct gaacccttcc atctacagcc tgaggaacaa ggaggtcatg 900
ggagccctga ggagacaaat gaaa 924
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<210> 968  
<211> 921  
<212> DNA  
<213> Mus musculus

<220>  
<221> variation  
<222> (396)...(812)  
<223> Any nucleotide A, C, G or T

<220>  
<223> MOR256-37P

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<400> 968
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ggtaaacactg ctataattct tgcacccctc ctggatcccc atctccatac accaatgtac 180
tttttctcctc ggaatctatc tttcctggat ttgtgtttca caacaagcat tgtccctcag 240
atgctgggtta acttgtgggg acccgaaaag accattagct ctgtgggctg tattgttcag 300
ctctatgtgt atatgtggct gggctccatt ggagtgtctg ctcttagctg tcatgtccta 360
tggatcgttt cacagctatt tgtaagccct tgcattnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
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nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 780
nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nncactccaa gtctcaaccc cctcatttac 840
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tttgccgaag taaggagaaa c 921

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<210> 969
<211> 934
<212> DNA
<213> Mus musculus

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<220>
<223> MOR174-15P

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<400> 969
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gggaacctgg gcatgattgc catcatcaga cttagcccta agctccacac tcccatgtat 180
ttttttctta gtcattctct ctttgtggat ttctgttact ccactgttgt cacaccaaag 240
ctcttagaaa acttgattgt ggaagacaga aaagatctcc ttcacaggct gtgtcatgca 300
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tgacagattt gtggcagtat gcaaccccct cctctacaca gtggctatgt ctcagaagct 420
ttgctgggtc ctggtagcag gatcctattc atgggggtata atctgttctt ttgtattcat 480
acgttttatg ttgaccttgg tcttctgttg gaccaagttc ataaataact ttgtgtgtga 540
gcatgatgcc attgtcgctg tatectgctc tgacccctac attagtcaga aggtcatttt 600
catcttttga actttcaatg agctaagcag tctgatgac attctcacct cttatgtttt 660
cattgtcatc actgtcatga aaatgcctac cactggaggg cgctacaaag tcttctccac 720
ttgtgcctcc catctcacta ccatcactat ttccatagc attatcatct gtctctactg 780
tgttcccaact accaaaagtt cttggctttt ggtcaagggtg gcttcagtct tctacacagt 840
tgtcatcccc atgctgaacc cactaatata cagtctcagg aacaaggatg tgaaggatgc 900
agttaagaaa ctaatgtgtt cttctttgtc atca 934

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<210> 970
<211> 814
<212> DNA
<213> Mus musculus

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<220>
<221> variation
<222> (261)...(280)
<223> Any nucleotide A, C, G or T

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<220>
<223> MOR225-8P

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<400> 970
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ctctgatcc ttttctcaat tagggggcag ttctctgttc aaccaacct atgtactatt 180
tcctcagtca tttagcatct atggacatct gctatacctc ctgtgtgaca cccaaattga 240
ttgggggcat tgcttgccga nnnnnnnnnn nnnnnnnnnn ctccactaca tggatcatcat 300
gagcagaaac agatgccatg tttttatctg ggcttctctg gttggtgggt ttgcccactc 360
ctttccccag gttatgatgc tagtctgttt gcccttctgt ggacccaatg aaatagacca 420
ctacttctgt gatgttttcc ctttgcgtga aattgcttgc actgatacct acatcatttg 480
tgtcctcatg gttgccaatt caggaatggg tgccctctgt atctttgttc tcttggtttg 540
ttcatatgta gttatactgt tcacattaag gaattactca gcagaaggga gacgcaaagc 600
tctttcaacc tgtgggtccc acatctctgt ggttatttta ttctttggat ctaccatctt 660
tgccctacct agacctccta ccactttccc tgaagacaaa atctttgcac tgttttacac 720

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tatcattgct cctatgttca accccctcat atatactcta agaaataaag agatgaagac 780  
tgccataaag aagggttggg gtcagatgtc attt 814

<210> 971  
<211> 925  
<212> DNA  
<213> Mus musculus

<220>  
<221> variation  
<222> (175)...(413)  
<223> Any nucleotide A, C, G or T

<220>  
<223> MOR225-9P

<400> 971  
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actgaagtat tttgcttcat tttcttctta ttctgctact ttaccatctt gtcttggaa 120  
ctgctgatcc ttttctcaat tagatgcagt tcttctgttc aaccaacctt tgtannnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420  
ctgggcttcc tgggttggtg gtgttgccca ctcccttccc cagggttatga tgctagtctg 480  
tttgcccttc tgtggacca atgaaataga ccactactac tgtgacgttt tccctttgct 540  
gaaagttgct tgcactgata cctacatcat tgggtgtcctc atgggttgcca attcggggaat 600  
ggttgccttt gttatctttg ttctcttggt tggttcatat gtagttatac tgttcacatt 660  
aaggaattac tcagcagaag ggagacgcaa agctctttca acctgtgggt cccatatatc 720  
tgtgtgttatt ttattctttg gaccttccat ctttgtctac cttagacctc ctaccacttt 780  
ccctgaagac aaaatctttg cactgtttta cactatcatt gctcctatgt tcaacccct 840  
catatatact ttaagaaata cagagatgaa gagtgccata aagaagggtt ggtgtcaggt 900  
gacattttta ggagaaaaac acaat 925

<210> 972  
<211> 354  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR230-9

<400> 972  
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atctcataca cagtcattct catgtctctg agaaagcagt catctgaagg cagacgcaaa 120  
gctctctcca cttgtggatc ccacattgct gttgtcatca ttttttttgg cccctgtact 180  
tttatgtata tgcggcctga cactaccttc tctgaggaca agatggtagc tatattttac 240  
actattatca ctcccatgct gaatcctcta atttacactc taagaaatgc agaagtaaag 300  
aatgcaatga gaaaactgtg ggctagaaaag ttttcttggg aaactactgg gaaa 354

<210> 973  
<211> 367  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR230-10P

<400> 973

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atgcataaca acagtatgac tgaattttatt ttgtttgggat tgactcagga tccagaacaa 60
cagaaggcaa tattttggagt cttcttgatt ctttacctta tgactttaat aggggaacttt 120
ctcatcatgg tgaccattaa gatgagtcag acacttggga gtcccatgta cgttttcctc 180
ttctattttgt ctttcgctga tgcttgcttc tctacaacta cagcacctag attgattgtg 240
aatgccctct cacagaaaaa aattattttcc tacaatgaaa tgtatgactc aggtctttgc 300
agctcacttc tttgggtgca tggagatctt cgtgcttata ctcattggcca ttgaccgcta 360
tgtagca 367
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<210> 974

<211> 927

<212> DNA

<213> Mus musculus

<220>

<223> MOR146-6P

<400> 974

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ggaaatgttc tcatcatctt ggccatcagc tgtgattccc acctccacag cccaatgtac 180
ttcttcttct acaacctttc attgtctgac atgggcttca gcagcaccac catccccaaa 240
atgctgataa acttgcattg ccataacaga tccataacat atgctgaatg cctaactcgg 300
gtatatttct tttttctttt tgggggtatg gacagcctat tgctggcttg tgatggccta 360
tgaccgatgg gtagctatatt gtcgccctct acactaccaa gtcattctaa gccctgcct 420
ctgtagatgt ttggtcattag tttcccttcc cattagtctt gtgagttcac aggtacactg 480
cttgttgggtg tcacaactaa cattttgtat taacgtagaa atccctcatt tcttttgtga 540
tgttccagaa cttgtaaaac ttgcttgctt taacactact atcaatgaca tagtcatgtt 600
tcttttaagc atcattgttg gtttccttcc tgctcagga atattttact cctactataa 660
aattacttct tctattttta gagtaccatc actgttagca aaatataaag ccttctctac 720
ctgtggatct cacctgtcag ttgtttgcct attttatgga acaggtatag gagtttacct 780
cagttcaaca gtttctagtt cttccaggga aagtatggtc gcttcggtta tgtatacaat 840
ggtggttccc atgatgaacc cttcattttac agcctgagga acagggacat caagaaatcc 900
ctctggaaaa ttgtccatca gataaca 927
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<210> 975

<211> 1581

<212> DNA

<213> Mus musculus

<220>

<221> variation

<222> (594)...(613)

<223> Any nucleotide A, C, G or T

<220>

<223> MOR0-7P

<400> 975

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actgatatcc agcctcttgt atttgggctg ttccctttca ttacctggg ctgcatcaca 180
ggaaatatgc ttatcatcct gatcattacc tctgatgccc acctccagac tccaatgtat 240
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atgttagtga acatccagac acagaataaa tccataacat atgaaggctg ccttgctcag 360
atgtattttt tcatgttttt ttctggattg gatagtttgt tactgactgt aatggcgtat 420
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gaccggtttg	tggccatatg	tcaccccttg	cactacatga	ttgtcatgag	ccctcacttg	480
tgtgttagtc	tactttctact	gtcttgcccta	atctgcctgg	cctattcatt	gttgcaaact	540
ttattttttt	tttccatttt	ttattaggta	tttaactcat	ttacatttcc	aatnnnnnnn	600
nnnnnnnnnn	nnngggcata	taaagtttgc	aagtccaatg	ggcctctctt	tccagtgatg	660
gccgactagg	ccatcttttg	atatatatgc	agctagagtc	aagagctccg	gggtactggt	720
tagctcataa	tgttgttcca	cctatagggt	tgcagatccc	tttagctcct	tggctacttt	780
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tctgtgtttg	ctgggccccg	gcatagtctc	acaagagaca	gctacatctg	cgtcctttca	900
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acaggagaca	ggttttcggtg	g				1581

<210> 976

<211> 327

<212> DNA

<213> Mus musculus

<220>

<223> MOR146-7P

<400> 976

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ggaaatgttc	tcatcatctt	ggccatcagc	tgtgattccc	acctccacag	cccaatgtac	180
ttcttctctt	acaacctttc	attgtctgac	atgggcttta	gcagcaccac	aatccccaaa	240
atgctgataa	acttgcatgc	acataagaga	tcacacaacat	atgctgaatg	cctaactcag	300
gtatctttct	ttattctttt	tgggtgt				327

<210> 977

<211> 934

<212> DNA

<213> Mus musculus

<220>

<223> MOR131-2P

<400> 977

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ccccagcagc	agcagctcct	cttctgttgc	ttcctcatca	tgtacctggc	cactgtcttg	120
ggaaacctgc	tcatcatcct	ggccatcagc	acagactccc	gcctgcacac	ccccatgtac	180
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gtactggcca	ttcacatact	cagaaatcaa	gccattttgt	actctgggtg	ccttacacag	300
ctgtattttc	tctgtgtgtt	tgtgtgacgtg	gacaatttcc	tgtgtggctgt	gatggcctat	360
gaccgatattg	tggccatatg	ccacccttta	cactacacaaa	caaagatgac	ccatcagctg	420
tgtgcccttc	ttgtttgtggg	gtcaggggtg	gtagccaacc	ttaattgtct	gttgcacaca	480
ctgctcatgg	cttgactctc	cttctgtgag	aactacatca	tccccactt	cttctgtgat	540
gcgactcctc	tcctgaaaat	cttctgtctca	gatccacatc	tcaatgatct	gatgattcat	600
acagaaggaa	ctatgatcat	tgttaccoca	tttgtctgca	tcctgatctc	ctacatacac	660

atcacctatg	caatcctgag	agtctcatcc	cataggggag	gatggaaagc	cttctccagg	720
tggctcacac	ctggctgttg	tgtgcttctt	ctatggcacc	atcatcactg	agtattttaa	780
cccttcgtcc	tctcactcag	ccaggaggga	catgacagct	gccatgatgt	acacagtggg	840
gacccccatg	ctgaaccctt	tcattctacag	cctggggagc	aggggtcatga	aaaggggctt	900
taagaaaagt	gcttaccatg	aaatttatat	ctaa			934

<210> 978

<211> 928

<212> DNA

<213> Mus musculus

<220>

<223> MOR252-3P

<400> 978

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ggcaatggcc	tgatcatcgc	gaccattcac	agcagtccca	acctccacac	tcccatgtac	180
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gttcgtcttc	tcctgggtcc	tgggtctctga	gcttctgctt	ttctctgcca	tggcctatga	360
ccgtacactt	gcaatctgtc	ggccactgca	ctatggcacc	ctcatgagtg	gcagggtctg	420
tgtggccctt	gcaacctttg	tgtgggtcac	tggagctttc	aattcattgg	tgctcacttg	480
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cccttctgtg	ttgatactgt	cctgtagtcc	cacctttatc	aatgacatca	tgactgtcat	600
tgagacatg	ttcctgacag	gcctgaactt	tttattgaca	atgacatcct	atggcttcat	660
catttccagc	atcctgcgca	tccgctcagc	tgagggcaag	aagcgtgcct	tctctacctg	720
ctctgcccac	ctgggtgtgg	tcacacttta	ttattccaca	gttctttata	cttatgtccg	780
gccagcccta	ggaactgctg	ggttcctgga	caaactcatt	gctgttctgt	ataccactgt	840
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taaaaaactc	atttcctctt	tgagaact				928

<210> 979

<211> 568

<212> DNA

<213> Mus musculus

<220>

<223> MOR103-14P

<400> 979

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ctgtggcccc	aacgtcatga	accacttctt	ctgtgatgtg	tccccactac	tcaaccttgc	180
ctgctctgac	atgtcagttg	cagagcttgt	agacttctct	ctggcgctgc	tcattcttgt	240
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gccctccgcc	ggtggcaggc	agaaggcctt	ctccacctgc	gcctcacacc	tggcctgtgt	360
ggtcatcttc	tattcagctt	ctctcttcat	ctatgcccgg	ccccgtgcc	tctactcctt	420
cgactacaac	aagcttgtgt	ctgttgtcta	cacagtgtct	acacccctaa	ttaaccccat	480
catctactgc	cttcggaacc	aagagggtcaa	gcaagcgcta	cataagggtac	agcagcgagc	540
agcccagggt	ctaggcgcct	cctcctag				568

<210> 980

<211> 943

<212> DNA

<213> Mus musculus

<220>

<223> MOR204-27P

<400> 980

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actgtgtctg ggaacctcag caccatcctt ctcacagag tctcttcca gctccatcac 180
cccatgtact tttttctca gccacttggc ttctgtagac ataggcattt catcttctgt 240
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gggcatacag ctcagctttg gtgatatctt tgggtcagtt gaatgtttt ttttggctac 360
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tcttgtttca tttctgtctg gctcagttac tatgctaaca gtgtttatca tagtcatctc 660
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<210> 981

<211> 928

<212> DNA

<213> Mus musculus

<220>

<223> MOR204-28P

<400> 981

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ctcatcacca tctgaagat gcaatccact gagggtcacc aaaaaacctt ctccacctgc 720
gccgccacc tcaactgcagt cattctctct tatggaacag ccacattctt ttatgtgatg 780
ccaaagtcca cctactctga ggaccagaac aagggtggtg cagttctaca cagtagcaat 840
ccccgtgtgg aatccctca tctacagccc ttggaatact gagactaaga atgccctgaa 900
atgacaattt tataggaaaa cattgtta 928
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<210> 982

<211> 936

<212> DNA

<213> Mus musculus

<220>

<223> MOR256-38

<400> 982

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cccacactca	accctcttgt	atataccctg	aggaacaagg	aggtaaaaag	agcattctgg	900
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<210> 983

<211> 826

<212> DNA

<213> Mus musculus

<220>

<223> MOR256-39P

<400> 983

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atgttgttca	acctctgggg	ccccacaaag	accatcagct	tcctgggatg	ctctgtccag	180
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gaccgctatg	tggtgtgtctg	tcagcccctg	cactatgccca	ccataatcca	cccccgcta	300
tgctgccagt	tggcaggtgt	ggcctgggct	atagggtttga	tccaatccat	agttcaaata	360
ccaccacccc	tcacactgcc	cttctgttcc	cataggcaga	tagatgactt	tctgtgtgaa	420
gtcccattct	taatccgact	ctcttgtggg	gacaccactt	ttaatgagat	tcagttgtca	480
gttgcaggtg	tcatcttctt	gcttgtacct	ctgagcctca	tcattgtctc	ttatgggtgtc	540
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ggcacccccc	acactcaacc	ctcttgtata	taccctgagg	aacaaggagg	taaagagggc	780
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<210> 984

<211> 792

<212> DNA

<213> Mus musculus

<220>

<223> MOR121-2P

<400> 984

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gtctggctac	actggctggc	tgcttgtctc	agttcctcac	cttcacctct	ctagatgcag	180
atgagtattt	cctgctgact	ctcatggcac	atgatcactg	cctagcaatc	ttttactccc	240
tataataccc	acgtctcatg	aggcctcaat	ggtgcctggg	gttgggtgatt	atagtctggc	300
tgtctggctt	tatggaagct	ggattagtgg	ttgctttgac	agcccagctg	aggttctgtg	360
gccccaacct	aattgatcac	ttttactgtg	atttctcacc	tttgatgatc	ctggcttget	420
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tctctgggct	gattctgatg	tcctatgctc	agtttgtggg	gattgtgctg	agaattccct	540
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cattctatgg	atcactcatg	gtgtggtaca	ctgcgccttc	tgtgtgctct	agtttgcaca	660
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<210> 985  
 <211> 760  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR121-3P

<400> 985						
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ttacattgcc	tggtgcttg	ctccagttct	tcacctttag	ctctctttat	atagatgagt	180
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gaccaaggcc	ttcttcatat	gccccctc	cctggctgtg	gtgtccacac	tctatggaac	600
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<210> 986  
 <211> 919  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR121-4P

<400> 986						
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tgtgtgtgtg	tataagcata	tgtacatact	tacacatata	aatacatatg	tgtgtacaag	180
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<210> 987  
<211> 881  
<212> DNA  
<213> Mus musculus

<220>  
<221> variation  
<222> (204)...(333)  
<223> Any nucleotide A, C, G or T

<220>  
<223> MOR171-32P

<400> 987  
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accatggcag ggaacctggg catgatcaca ctgattgggc tcagttctca tctgcacaca 180  
cccatgtact atttcctcag cagnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
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tcagtattta cagttctctg atttcagggg tatatatatt tgctgtgata tgttcatact 420  
ttaacactgg ctcatgctt aggactcagt tctgcaattt agatgtgatt aaccactatt 480  
tctgtgatct tcttccctc ttgaattctg catcctctaa tacctacatc aatgaaatat 540  
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acatcttcat tattgtcacc atcctctcca ttactccag ggaggccaag ttcaaagctt 660  
ttagtacttg tagtaccac atctctgctg ttgtctctt ctatggttca ggtgcattca 720  
cgtattttaca gccctcatca ctgaattcta tgggccaagc aaaagtgtcc tctgtgtttt 780  
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<210> 988  
<211> 534  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR171-33P

<400> 988  
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actgtgtctg ggaatctggg catgattata ctaattgggc tcagttccaa cctgcacaca 180  
cccatgtact atttcctcag cagtttgtcc ttcatgact ttggtcagtc cacagttgtt 240  
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atgactcagc tctattttgt catattttt ggactgcag agagctacac attagctgca 360  
atggcatatg accactatgt tgccatctgt aacacottgg tttacaatat agccatgtcc 420  
tctcagattt actgttctct gatctcagg gtatacattt ttgtgtgtgt ctgtgcatca 480  
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<210> 989  
<211> 534  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR171-34



<400> 989

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tacttttgtg atcttttccc attacttgag ctgtcttgct ctagtacttt tatcaatgaa 180
atattagcac tgtcccttcag tgcatttaat attattgtac cagccatgac catcattggc 240
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gccttttagaa cctgcagctc ccatactctg gctgttgcta ttttctttgg ttctacaaca 360
ttcatgtatc tacaaccatc ttcagtcagc tccatggacc aagggaaagt gtcactctgtg 420
ttttatacca ttgtttgtgc tatgttgaat cccatgatct acagcctgag aaataaagat 480
gtcaaagttg ccctaataaa gttactacaa aagatgtttc ctcaaaacaa ggaa 534
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<210> 990

<211> 552

<212> DNA

<213> Mus musculus

<220>

<223> MOR275-5

<400> 990

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tccactctcc tcactgttct caggatgaac tcagcagagg gcaggaagaa ggcccttgcc 300
acctgctcct cccacatgac tgtgggcacc ctcttctatg gcgctgctgt ctataacctac 360
atcttccctg cctccctcca caccctgag aaggacatgg tgggtgtctgt gttttacacc 420
atactacccc ctctgttgaa cccactgatc tatagtttta ggaataagaa tgtcacagag 480
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tataagaat ag 552
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<210> 991

<211> 919

<212> DNA

<213> Mus musculus

<220>

<223> MOR285-4

<400> 991

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ggcaacatca cactggctcct cctcatcagg ctggaccaa gactccacac ccccatgtac 180
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cgtgagtggg cttgtcattc tgcgtctccc ctctctggcc atcctagctt cctatgctcg 660
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gctgaggaga caaatgggg 919
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<210> 992  
<211> 777  
<212> DNA  
<213> Mus musculus

<220>  
<221> variation  
<222> (212)...(249)  
<223> Any nucleotide A, C, G or T

<220>  
<223> MOR275-6P

<400> 992  
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atggccttgt ctgggaacgc cctcctgata ctgctgatac tctctgacac ccaccttcac 180  
acaccaatgt attttttatc agccagctgt cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
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gcttcatgct caccctgtgc accatgacct tccccattct gtgggtcccg ggagatccat 360  
cacttcttct gtgaggttcc tgtgttgaca aagctctcct gctcagacac ctggctctat 420  
gagacctca tgtatgtgtg ctgtgtgtgc atgcttctca tccctgtgac agtcatttca 480  
ggctcctata catccatcct cctcactgtt ctcaggatga actcagcaga gggcaggaag 540  
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<210> 993  
<211> 923  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR284-1P

<400> 993  
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ctcttgatct gggcagactc tcacctccgc accccaatgt acatactact cagtcagctc 180  
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ctgtctgtca tcccttgaga tattcaatta tcatgaacaa tagagtctgt ctgtggatgg 420  
ccctcatgtc ctgggggtgga ggtgccctga attctctcat caacaccttc tacatcatgc 480  
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tgaggctctc ttgtgaggaa aacttctttg tatgagatgg tgggtgtctgt caattgcata 600  
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gttctccgaa taaattctcc agagggcagg aggaaagccc tggccacgtt ttctctccac 720  
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tgagtcaacg attcatttta aag 923

<210> 994  
<211> 357  
<212> DNA

<213> Mus musculus

<220>

<223> MOR275-7P

<400> 994

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atggaccagg tcctggggag ccacaagatc tcacctgctg cctgtgggat gcagatgttc 300
ctgtacctga cattagcagg gtcagaattt ttccctctgg ctgccatgtc ttatgaa 357
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<210> 995

<211> 833

<212> DNA

<213> Mus musculus

<220>

<223> MOR204-29P

<400> 995

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tagtcatatc ttatttctat attgtcatca ccactctgaa gatgcactcc actgaggggc 600
gccaaaaagc cttctccacc tgcattgtcc acctcactgc agtcactctc tactatggaa 660
ctaccatatt catttatgtg atgcccaagt ccactactc cagggaccag aacaaagtgg 720
tgtctctgtt ctacgtggtg gtaatccccg tgttgaatcc tctcatctac agccttcgga 780
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<210> 996

<211> 624

<212> DNA

<213> Mus musculus

<220>

<223> MOR204-30P

<400> 996

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aaattgtcca cacaagtgtg tatccagttg gttgtaggat cttatgtagg gggtttcctt 480
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<210> 997  
<211> 532  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR204-31P

<400> 997  
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actgtgtttg gaaatctcag caccatcctt ctcatggag tttcttccaa actccatcat 180  
cccatgtact tttttctcag ccacttggct tctgttgata tgggcctttc atcttctgtc 240  
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ggcatacagc tcagctcagc tgctttcttt ggggctgttg agttcttcct tctggctgcc 360  
atggcttatg atcgttggg agcaatctgc aaccactgc tttattccac caaatgtcc 420  
acacaagtgt gtatccagtt ggttgtaggt acttatgtag ggggtttcct taacgcttca 480  
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<210> 998  
<211> 563  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR246-1P

<400> 998  
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ggcaatatca tgattattgt catcattttc tctgactcac acttgaactc tctatgtac 180  
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gacaggtttg tagcaatatg taagccactg cactacaatc taattatgaa tcggagagta 420  
tgtataattt ttgtgtcaat ttcttgggca gtaggtatcc ttcattctgt gagccatttg 480  
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cttccttgg gataaagctt gcg 563

<210> 999  
<211> 459  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR247-3P

<400> 999  
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gctgacagtg ggctgctctc ctttatctct ttcttctctt tgcttgtttc ctatactgtc 180  
attctgctca ttataaagca caaatcacct ggcagtctct ccaaggeget gtccacattg 240  
tctgctcaca taattgtggt cactctgttc tttggacct gtatttttat ctatgcctgg 300  
ccatttggga gttttgcaag caatacaact cttgctgtat tttaactgt tatcacacct 360  
ttactgaatc ctattattta cacactgaga aatcaggaaa tgaagaaagc catgagaaaa 420

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459

<210> 1000

<211> 873

<212> DNA

<213> Mus musculus

<220>

<221> variation

<222> (258)...(277)

<223> Any nucleotide A, C, G or T

<220>

<223> MOR256-40P

<400> 1000

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gggaacatcg ccatcattct ggtgtccacc ttagaccctc gtctctacag ccccatgtac 180
tttttcctca agaatctctc ctttctggga catgtgctac accacaagcc attgtgcctc 240
agatgctgtt taacctgnnn nnnnnnnnnn nnnnnnnntt tagctattat gtcctttgat 300
cgatatgtgg ctatctgcaa acctctccac tacactctca ttatgaacca aagagtatgc 360
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cttacattgc aactgccatt atgtggcaca aataaattgg atcatttatt gtgtgaaatc 480
ccagttctca taaaaactgc ctgtggtgaa aaggaattta atgagctagc actttctgtg 540
gtatgcattt ttatacttat tgttcctctg tgcttaattc ttgcttctta tgttaatatt 600
ggatgtgcag tacttagaat taaatcttct gaaggaagga ggaaagcctt tgggacatgt 660
tcttcccatc tcattgtagt ttccttattt tatggtccag gtattagcat gtaccttcag 720
ccttcttcac ctatcacaag ggaccaaccc aagttcatgg ctctgtttta tgcggtgata 780
actctacat tgaatccctt catctatacc ctaagaaaca aggatgtaaa ggggtgcctt 840
aaaaagctcc tgagaagcat tttcagttca aag 873
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<210> 1001

<211> 963

<212> DNA

<213> Mus musculus

<220>

<221> variation

<222> (590)...(810)

<223> Any nucleotide A, C, G or T

<220>

<223> MOR182-7P

<400> 1001

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aaccttgggt taatctttct catctggaag gatcctcacc ttcacacacc catgtactat 180
ttccttggaa gtttagcttt tgctgatgcc tgtacttcat cctcagtgc tcccaggatg 240
cttggttaata tcttagacaa tggtgaagatg atttccctct ctgaatgcat ggccaatat 300
tatgtttttg gatccagtgc aaccacagaa tgtttcctcc tggtagcgat ggcctatgac 360
cgctatgtag ccatatgcaa tcctttgtct tatcttgtgg tgatgtccaa cagagtgtgt 420
acttgccctga taagtggctc atatataatc ggttttctgc atccacttat tcatgtaggt 480
ttattattta gattaacctt ctgtaaatcc aatataatag atcattttta ctgtgagatc 540
ctgccactct atacaatttc ttgcaccgca cccatctatt aatgcatttn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	ttatgtacgt	gagccctggg	tctggaccaa	840
gtaaatataa	gaataagatg	tattctctgt	tttacaccat	tgtgattcct	ctactaaacc	900
ccttcatttt	acagcttaag	aaacaaggaa	gttttagggg	ctctgagaaa	aatcataaag	960
tca						963

<210> 1002  
 <211> 919  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR182-8

<400> 1002						
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ttttattttct	ttggttccag	tgcaacgaca	gaaatgtttc	ctactgtcag	tgatggccta	360
tgaccgctat	gtggccatat	gcaacccttt	gctttatcca	gtgatgatgt	ccaatagcct	420
ctgtatgaaa	tttatacatg	tttcataatat	tgtagggtttt	ctacattcag	caattcatgt	480
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gcgtcccggg	tctggatcag	gtgaagataa	ggacagaatg	tattctttat	tttacacaat	840
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<210> 1003  
 <211> 709  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR183-5P

<400> 1003						
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tcttttggca	gcaatggcct	atgategcta	tgtagccata	tgcaaacctt	tactctaccc	180
agtgatcatg	acaaatagac	tttgtgtacg	tcttttaaca	ttgtcctttt	taggtggatt	240
cattcatgtc	ttaatccacg	aaggcttttt	attcagattt	atTTtctgta	ggtctcacat	300
aataaaccac	ttttattgtg	atgTTatgcc	actgttaaag	atTTcctgta	atgaccttc	360
tatcaattac	ctgatgtctc	ttattttctc	tggctcaatt	caggtcttca	caattacaac	420
tatccttgtc	tcttatacac	ttgttctgtt	ttctatccta	aagaagaaat	ctctcaaaag	480
cataaagaaa	gcctttttcca	cctgtggagc	ccatctcctc	tctgtttctt	tgtactatgg	540
ccctctgtct	ttcatgtatg	tgcgccctgc	atctccacaa	gtaaatgatg	aagatatgat	600
ggactctgta	ttttacacca	tcataattcc	tgtactgaac	ccaattatct	acagtctgag	660
gaatgagcaa	gtaaaaaaat	cactggcaaa	atgtttaagg	agaaatagt		709

<210> 1004  
 <211> 918

<212> DNA  
<213> Mus musculus

<220>  
<223> MOR183-6P

<400> 1004  
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catctcttat ctgtgtctct gtactatggg cctcttctca tcatgtacgt gttccccgtg 780  
tcccaagaag cagatggtca agatatcata gactctctgt tctacacgat cataattcct 840  
gtgttaaata caattatcta cagtctgaga aacaagcaag tcatagattc tctgaaaaaa 900  
gtgttaaaga aaaagggt 918

<210> 1005  
<211> 483  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR113-6P

<400> 1005  
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tgtaatgacc cttctatcaa ttacctgatg ctctttatct tctctggctc aattcaggctc 180  
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gatgaagata tgatggactc tgtattttac accatcataa ttctgtact gaatccaatt 420  
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<210> 1006  
<211> 425  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR184-10P

<400> 1006  
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aaactttttc cattattata gtccctgattt cttattttct catcctttat actatattca 180  
caatgaagtc cagagagggg agaagcaaag ccttatctac ttgtgcatcc cactttctgt 240  
ctgtgtcaat attctatggg tctcttctct acacatatat tcgaccaagt tctatcaaag 300

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cctttatttta	tagtctgaga	aataaagaag	taattaatgt	gattaaaaaa	accataaaca	420
aagga						425

<210> 1007  
 <211> 400  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR113-7P

<400> 1007	
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ctcttataca	cttgttctgt tttctatcct aaagcagaaa tctctcaaaa gcataaagaa 180
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attttacacc	atcataattc ctgtactgaa cccaattatc tatagtttga ggaataagca 360
agtaaaaaaa	tcactggcaa aatttttaag gagaaatact 400

<210> 1008  
 <211> 925  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR170-10P

<400> 1008		
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 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR166-1

<400> 1009	
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<210> 1010  
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 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR162-8

<400> 1010						
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 <211> 705  
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 <213> Mus musculus

<220>  
 <223> MOR256-41P

<400> 1011						
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tacttctct	cccacctctc	cttcttgagc	ctctgtctaca	ccaccagcac	tgtgccacag	240
cttctcataa	atcttcatgg	acttgacagg	accatcagct	atggagggtg	tgtggcccag	300
cttttcatat	ctcttgcact	gggatccact	gagtgtgtgc	tcttagtggt	gatggctttt	360

gaccgctatg	ctgctgtgtg	tgttccactg	cactacatga	ccatcatgca	cccccttctc	420
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<210> 1012  
 <211> 934  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR233-15

<400> 1012						
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atcataattg	tggttaacaat	tgtattcagt	cctgcacttt	ctggctcccc	catgtacttc	180
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attgtagact	tcttctatga	gaggaagacc	atttcctttg	aatgttgat	gatacaactc	300
tttgctgtcc	acttcttcac	aggggtggaa	gtgattgtcc	tgtcagccat	ggcctatgac	360
cgctatgtag	ctatttgcaa	gcccttgcac	tactcttcca	tcatgacca	gaggctctgt	420
ggcatcctag	tcggaatagc	ttgggcagga	ggcttcttgc	attctatcat	ccaaattatc	480
ttcactttgc	agttgccctt	ctgtggcccc	aatgttattg	atcattttgt	atgtgacttg	540
ttccattac	taaagcttgc	ctgcaccaat	acacacattt	ttgtcatttt	ggtatttgcc	600
aatagtgggt	ctatctgcat	cattatcttc	tctattttgc	ttgtttccta	tgggtgtcatc	660
ttgttctctc	tgagaaacca	cagttctgaa	ggtcggcgta	aagctctctc	tacctgtgga	720
tcccacatta	ctgggtgtgc	ttttgttctt	tgtcccttgc	atattaatat	atgcacgaaa	780
taattctgaa	ttctcatttg	agaaaaatgt	gtttatatatt	gatgatgtcc	tgacaccaat	840
gctaaatcct	ttggcttaca	ctttcaggaa	taaggaaatg	aagaatgcca	tcaagaaaat	900
gtggaggaga	ttgtttaata	tttctgataa	gcat			934

<210> 1013  
 <211> 789  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR233-16P

<400> 1013						
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ttttatttgt	ctacattgca	actgttgggg	gcaacatgat	aattgtgggtg	accattgtct	180
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atgcatgctt	ctcttctgtc	atcacacca	agatggttgt	tgactccctg	tatgagaaga	300
aaactatctc	ctttgaagga	tgtatgatgc	agttatttgc	tgagcacttc	cttgcagcag	360
tagaagtgat	tgtcttgaca	gccatggcct	atgaccgcta	tgtagcaatt	tgcaagccct	420
tgcactactc	ttccatcatg	aactggaggc	tctgtggcac	acttatgggg	atagcatgga	480
cagggggcct	cttgcattct	atcatacaaa	ttatcttcac	gttgcaattg	cccttctgtg	540
gaccaaattg	catcgatcat	ttcatgtgtg	acttgttccc	attactggaa	cttgcctgca	600
ctgatactca	tatctttggc	cttttagtgg	ttgccaacag	tgggtctatc	tgcatcataa	660
tcttctctat	tttgctgggtc	tcctatgggtg	tcctcctggt	ctctctgaaa	gatcacagtt	720
ctgaagggcg	atggaaagct	ctctccacat	gtggatccca	cattgcagtt	gtgggtttgt	780
tcctttgtc						789

<210> 1014  
<211> 1036  
<212> DNA  
<213> Mus musculus

<220>  
<221> variation  
<222> (370)...(902)  
<223> Any nucleotide A, C, G or T

<220>  
<223> MOR225-10P

<400> 1014  
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ctggctgtct taatgggaaa ctccgtcatc cttctcacca tcacctgcag ccacctaatc 180  
gaacaaccaa tgtattatatt tctctgccat ctttccctca tggacctctg ctacacctcc 240  
actgtgattc ccaggctcat cagggacttg gcagcaacaa gaaaaaacat ttcttataat 300  
gagtgcattg cccagctctt cactgcccac ttgctggcag gtgtggaaat cttcatcctg 360  
gtgtccaggc nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540  
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nntgttttac actgtgattg ccccaatgtt gaatcccctt atctatactc tgagaaacag 960  
tgagatgaaa agtgccatgc acaagggtgtg gtctcggctg tcactcagag ttgaagtaag 1020  
tgaaagaata ttgtga 1036

<210> 1015  
<211> 471  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR233-17

<400> 1015  
tctatcatatc aaattatctt cacttttacag ctaccctttt gtggacccaa tgtcattgat 60  
cattttatgt gtgacttggt cccattactg gagttggcat gcactaacac ttatgtctat 120  
ggctctcttag tgtttgccaa cagtgggtct atctgcatca taatcttttc tatgttgcta 180  
atctcctatg gtgtcatctt attctctcta agaagtcaca gttctgaagg gcgatggaaa 240  
gctctctcta cttgtggatc ccacattgct gttgtggttt cattctttgt cccatgcata 300  
ttcatatatg cagcatctac atctgcatca tcttttgaga aaaagggtggc tgtgttcgat 360  
ggcatcatga ctccattgct caatcctcta atttacactt tcagaaataa agaaatgaaa 420  
aatgccatta ggaaaatgtg gaacagattt agaatggtct ctgacaaatt t 471

<210> 1016  
<211> 933  
<212> DNA  
<213> Mus musculus

<220>

<221> variation  
<222> (460)...(678)  
<223> Any nucleotide A, C, G or T

<220>  
<223> MOR231-15P

<400> 1016  
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gggcaaaaag ctttatttTgt tatgtttttca ctgatgtaca ttgcaacaat ggtggggcaac 120  
ctgctcatcg taggaacagt gattgccagc cctCcttTgg gctccccaat gtacttcttc 180  
cttgCctctc tgtCactcat ggatgctgtt tattccactg ccatctcacc caagttgatt 240  
gtagacttgc tccgtgagaa aaagaccatc tCcttcagag cttgtataag ccagctcttt 300  
atagagcatt tgtttTggtgg ggttgacatt gtcattctag ttgcaatggc ctatgatcgC 360  
tatgtggcca tctgtaagcc actgcattat ttgatcatca tgaatcgaag ggtatgtatC 420  
ctcttacttg gtgatggcct gggcgggagg ttttgCacan nnnnnnnnnn nnnnnnnnnn 480  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 720  
tttgTtccat gtatttttcat gtatgttTaga cctgttttcta gtttttCctat tgataaatcc 780  
atCactgtaa tttataccat tgtCactccc atgttgaatc ctttaataata taccttgaga 840  
aattcagaaa tgaaaatttc catggaaaag ctCctgcaga aaacattaag tccatgtaga 900  
atacgtcttt ctcttTgctg cttatgttac taa 933

<210> 1017  
<211> 358  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR231-16P

<400> 1017  
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gggcaaaaag ctttattctgt tatgtttttca ctgatctaca ttgtgacaat ggtggggcaac 120  
ctgctcatcg tagggacagt gattgccagc cctCcttTgg gctccccaat gtacttcttc 180  
cttgCctctc tgtCactcat ggatgctatt tactccactg ccatcacacc caagttgata 240  
gtagacttgc tctgtgagaa aaagaccatc tCcttcagag cttgtataag ccagctcttt 300  
atagatcatt tgtttTggtg gggTtgacat tgtcattctg ctggcaatgg ccttatga 358

<210> 1018  
<211> 937  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR245-15

<400> 1018  
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tgagagtattc aactattttct ctttTgtgttc tCctccacgt tttatgtggc aagcatgatg 120  
ggaaacagcc ttatcgtgtt cactgtTggca tctgacCctc acttacactc tcccatgtac 180  
tttctttTtg ctaacctctc tttcattTgac ttgggtgttt ctTctgttac ttctccaaag 240  
atgattttatg acttatttcag aaagcacaaa gtcattctct ttacaggTtg tgttactcaa 300  
atatttttca ttcatgtcat tggTgggtgtg gagatggTgc tgcTcatagc catggccttt 360  
gacagatatg tggccatatg taagCctctc cattacctga ccattatgag cccgaggatg 420

tgcatcttgt	tttcagtgac	tgcctgggtg	gttggcctta	tgcatctttt	gattcaactg	480
gctttttag	taaacttacc	attctgtgga	ccaaatgtgt	tgacagctt	ctactgtgac	540
cttcctcgg	ttatcaaact	agcctgcata	aatacttacc	agctggagtt	aatggtcaca	600
gccaacagt	ggttcatttc	tgtgggctcc	ttcttcatac	tgatcatttc	atataattgtc	660
atcataatca	ctgtgcaaaa	acattcttca	agtggttcct	ctaaagccct	atctactctt	720
tctgctcaca	tctctgtggt	gttcttattc	ctttggctct	ttgatatttt	tctatacctg	780
gccatctcct	tcaacacatc	ttgataagtt	tctggccata	tttgatgcag	ttatcactcc	840
gtttctgaat	cctataatct	atacatttag	aaatcaagaa	atgaaggtag	caatgaagag	900
agtatgcaga	cagctagtta	gctataggaa	agcttcc			937

<210> 1019  
 <211> 964  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR245-16

<400> 1019	
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gggaacctgc	tcattgtgct cacaatcattc tcagaccacc acctgcactc ccccatgtac 180
ttcctgctgg	caaacctctc cttcattgat acaggtgtgt ccagcatcgc tactccaaag 240
atgatttatg	acctcttcag aaagcacaaa gtcattctacc ttgaacggat gcatcactca 300
gatgtttctc	attcacactg ttggggggaac agagatgggtg ttgctcatag tcatggccta 360
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gtgcattgtt	cttttggctc ttgcttggat cattggcctt atccattctg tggcccaatt 480
ggcttttgtt	gtaaatattac ccttctgtgg agctaataaa atggacagct tttactgtga 540
ttttcctcgg	ttcatcaaac tcgcatgtac agacacatac agactggagt tcctggctgc 600
tgccaacagt	ggtttcattc ccatggccac cttcttcata ctgattgtgt cttacatctt 660
cattctggtc	acagttcgta aacactcctc aggtgcttcc tccaaggccc tctccactct 720
ctcagctcac	atcactgtgg tcgttttctt ctttggctct tgcatatttg tctatgtgtg 780
gcctttcccg	actttaccca tagataaatt tttagcaatt ttcgatgtca ttatcactcc 840
ttttatgaat	cctctcatct atacacttag aaataatgag atgaagggtg cgatgaggag 900
actatttatt	agggtcttac atttcaaaaa tttttttatt agcagtttaa gagatttgag 960
ttaa	
	964

<210> 1020  
 <211> 883  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> variation  
 <222> (173)...(318)  
 <223> Any nucleotide A, C, G or T

<220>  
 <223> MOR245-17P

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ggaaacatcc	tcattgtgtt ctctgtgacc attgaccctc acttacattc acnnnnnnnn 180
nnnnnnnnnn	nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn	nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn	nnnnnnnncc	atatgtaagc	ccctgcacta	ccctgaccat	catgagtcca	360
cgtgtaatgt	gttttgtttc	tgggtgctgc	ttggggcctg	ggcattagcc	actcattggt	420
ccagctggct	tttcttattg	acttaccctt	ctgtggccca	aatgtactgg	acagctttta	480
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catcttcac	ttgttttagt	tctggaaaca	ttcttcaggt	ggttcaccca	aagccctctc	660
cactctctca	gctcacatca	cagtgggtgt	tctctttttt	ggctctactc	tgtttatata	720
tacatggccc	catcctaatt	cccagataga	caaatttctt	gctctttttg	atgcgggtct	780
tactcctttt	ctgaaccag	ttatctacac	attcagaaat	aaagagatga	aggtagcaat	840
aaagagagtt	ttaaaagtat	tattaacttt	tagaaatatt	tca		883

<210> 1021  
 <211> 973  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR119-3

<400> 1021		
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gtggccgagc	acctgagaat cctcttcttc ctgatgcatt tgctggccta cttggcttcc 120	
atcatgggca	acacgctcat aattagcacc acctgcgtgg accaccgatt gcagacaccc 180	
atgtacttct	tcctcagcac ttactccttt gtggagtgtc gttttataac tacagttatc 240	
ccccagctgc	tcgccatctt tctgtcaggg aggcaaacca tctcctttgt ggcttgcttc 300	
acacaggctc	ttgtggtttt tgtcctgggg gcaactgttt ttttctcct ggctgtctta 360	
tcccctggac	cgctatctgg ccatctgcaa acctctacat tatccaacca tcatgagccc 420	
aaggatgtgc	tttctccttg ttactgtgtg cttagttttg ggattcctct tcatggctgg 480	
tccagttgtg	atgctttccc agtcaccta ctgtggcccc aatgttatte ctacttttt 540	
ctgtgatttt	gggccactgg caaatctctc ctgttcagat accatgtctg ttgagatgct 600	
gttttttaac	cttgctttta ttgtgctttt tgggtccctt ctggtagcca tctttgcata 660	
cagcaacata	gtggtcacaa tagtgggtct ccttcgggcc agggagaaac agagagcttt 720	
ttccacttgt	tcctctcacc tcattgtcct ctctctaatt tatggcagct gtgtatttat 780	
atacatgaag	ccaaagcaga caagcaggct ggacaccaac cgagaggctg ctcttgatga 840	
catggtagtg	acaccctttt tgaaccctgt catctacacc ctgagaaaca agcagggtcca 900	
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accttccctt	tga	973

<210> 1022  
 <211> 985  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR119-4

<400> 1022	
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gaggggttcc	ctgtggccga gcacctgagg atcctcttct tcctgatgca cttgctggcc 120
tacttggtct	ccctcatggg caacacgctc ataattagca tcacctgctt ggaccaccga 180
ttgcagacgc	ccatgtactt cttcctcagc actttctcct ttgtggagtg ctgttttata 240
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gtggcttgct	tcacacaggg ctttttcttt cttttcctgg gagcaactgt tttttacctc 360
ctggctgtct	tatccctgga tcgtatctg gccatctgca aacctctaca ttatccaacc 420
atcatgagcc	caaggatgtg ctttctccct tgttactgtg tgetttagct tgggattcct 480
cttcatggct	ggtccagttg tgatgctttc ccagtcaccc tactgtggcc ccaatgttat 540
tcctcacttt	ttctgtgatt ttgggccact ggcaaactct tcatgtttag ataccaggct 600

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ggttgagatg ctatTTTTTTT accttgcatt aattgtgctt tttggttccc ttctggtagc 660
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acagagagct ttttccaact gttcctctca tctcattgtc ctctctttaa tgtatggcag 780
ctgtgtatTTT atatacatga agccaaagca gacaagcagg ctggacacca accgagaggc 840
tgctcttTgtg aacacggtag tgacaccct tctgaaccct gttatctaca ccctgagaaa 900
caagcaggTc caccaggctc tgagggatgc actgtccagg gttaaattac ccagatttca 960
gaggagcaat gcaccttccc tttga 985

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<210> 1023  
 <211> 207  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR263-8P

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<400> 1023
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cccatgtctga accctttcat ctataccctg aggaagaggg acatgaaaag gggtttaagc 180
aaagtgttta ccatgaatat tcatcta 207

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<210> 1024  
 <211> 933  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR257-6

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<400> 1024
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ggcaacctac tcatcatcct cctcatcaca ctggacagca agctccatac gcccatgtac 180
ttcttccTca gcatcctgtc atttTgtggac atctgtctaca ccaacagcac Tgtcccccag 240
atgtctgtTg actttctgtc agccaggaaT tccatccctg ttcacagttg TgtgatTgac 300
ctgtatatct ccctagcaat gggcagcaca gagttcttcc TgtaggTgc catggcctat 360
gaccgctacg TggcagTgtg ctaccctctg cactacatgg tcatcatTgca Tggagggctg 420
Tgtctgggac TggcttctTg ctgtctgact gctggTctca caaatTcact aatgcagaca 480
ctcatgatct tccactTacc ctctctgtcgt aaggTcatca atcactttTg ctgtgagatg 540
ttggctgtTg tgaggctgag ttgtTgtggac atctccctca acaaggTcat ggtagccatc 600
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gttTgtTgcca ttctacgcat Tcgtcttcc caaggatgac gcaaagcctt TgggactTgt 720
gcctcccatc tcacagTggT ttctatTgtT tttTgaacag ccatctttac atacatgagg 780
cctTgggca gatcctcagc aggacaggag aagatggTtT ctctcttcta TgtgtTgtg 840
actccaatgc tcaatccact catctacagc ttgaggaaca atgatTgtat TggggcttTg 900
aaaagaactt Tggagaaact taaggaaaaa aaa 933

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<210> 1025  
 <211> 864  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> variation  
 <222> (349)...(400)  
 <223> Any nucleotide A, C, G or T

<220>

<223> MOR257-7P

<400> 1025

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aatggactca tcgtcctact gattgcactc gacccacgac tccacctgcc catgtatttc 180
ttcctctgtc acctgtcagt ggtggacatc tgctacacct ccagtggggt tcccagatg 240
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tttttgctct gactcttggg ggaactgagt ttctgttgcg ggctgccann nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn agacagcagt caccatgtgc 420
cttcctacct gtgggcacaa tgtgctcaac catgtggcct gtgagacact gacactggtc 480
agactggcct gtgtggacat caccctcaac caagtgggta tactagcttc tagtgtggtg 540
gtgctgatga taccctgctc tctggtctct ctgtcctatg cccacattgt ggctgctatc 600
atgaagatcc attctaccca gggacgccgc aaagcctttg agacctgtgc ctcccacctg 660
actgtggtct ccatgtctta tgggatggcc ctcttcacct acctgcagcc cgcctccaca 720
gcctctgctg agcaggacaa ggtggtagtg atcttctatg ctttggtcac ccccatgatg 780
aatcctctca tctacagtct gaggaacaag gatgtgaagg ctgctttcag gcgagttctg 840
atgaagaaca ttgagtcaaa gaat 864
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<210> 1026

<211> 892

<212> DNA

<213> Mus musculus

<220>

<221> variation

<222> (314)...(333)

<223> Any nucleotide A, C, G or T

<220>

<223> MOR257-8P

<400> 1026

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<210> 1027

<211> 435

<212> DNA

<213> Mus musculus

<220>



<223> MOR34-8P

<400> 1027

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gtggctatga tggggaactg tggactcctc tatctcatct tctttgagga ttccttacac 180
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tgtcttgtag agatgttctt catccatacc ttcattggga tggagtctgg agtgctcatg 360
ctcatggctc tggaccacta tgtagccatt tgctaccctc tgcattactc caccattctc 420
accaatccta tcatt                                     435
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<210> 1028

<211> 651

<212> DNA

<213> Mus musculus

<220>

<223> MOR0-8P

<400> 1028

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aactttcttg ctttcacaat aaacagggtg gacctactc ttcaaacaca caagtatttc 180
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tgaggatgtc atttgcaacg gacggccaga aggcattttt tatttgttta ttatacctta 540
ctgtgatata ctacttttat gtaacagcca acctgacctc ctgaaggacc agctccaact 600
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<210> 1029

<211> 648

<212> DNA

<213> Mus musculus

<220>

<223> MOR214-7P

<400> 1029

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ccttcattgt tttaataagg atggattcac acctccacac acctagtatt tccttcaaag 180
aaatctacta catcagctca gcaatagaat aatgctttcc aaattcttcc aagaaaagca 240
aactatcagc tttgtgggct acatgggtata atattttatc tttttcacta ggggtgctaag 300
tgaatctttc cttgtgacag ctatgcctat gacaagtatg ctatcatttg caacccact 360
gctctatcac caatcatgtt acccaccctg tgtgcttggg tgatggtaga atcttatgtg 420
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gacaaattct ttgtacagtt tctgcttgcc atattttaca gggtgttttag aatagtgaat 600
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<210> 1030

<211> 942

<212> DNA

<213> Mus musculus

<220>

<223> MOR171-35P

<400> 1030

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gcatgactca gctctactgc ttctcattt ttggcattgc agaaggttac acattagctg 360
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<210> 1031

<211> 830

<212> DNA

<213> Mus musculus

<220>

<223> MOR171-36P

<400> 1031

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gctctcatgt catggctgtg ggaattttct ttgggtctat caccttcata tatttcaagt 780
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<210> 1032

<211> 549

<212> DNA

<213> Mus musculus

<220>

<223> MOR171-37

<400> 1032

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tgotctaata	tttttgtgaa	tgagctotta	attctaattt	ttagtctaata	taataccatt	240
ttcccaaccc	tgaccatcct	catttcttat	actttcatca	ttatcagcat	cctgcgcatt	300
aatctactg	agggaagatc	taaagccttc	agtacctgca	gctccctcat	ctcagctggt	360
gctgtctttt	tcggttctgc	tgcatttatg	tatctgaaac	catcatcttc	aagctccata	420
aatgaaggaa	aaatatgttc	catattctac	accatctttg	tgcctatgct	caaccccccta	480
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<210> 1033  
 <211> 932  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR135-23P

<400> 1033	
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acatttcatc	tgtgtttctg tgggttcaaaa gaaatcaacc atttcttctg tgatatccct 540
cctctcctat	cactattttc ctcagatata gaggtcaatg aactagacat attcatccta 600
tgtgagttta	ctaagatgag caccatttca tgagtcctgg tcttttactg ttacatcatc 660
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atcttcatgc	tcaacgcagt gatttatagc ctcaggaatg aagatgttaa agcaagtgtg 900
aatgtccct	gaaaagtaga atttcagatt aa 932

<210> 1034  
 <211> 1046  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR0-9P

<400> 1034	
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gtctgatcaa	cttctgggtg atactcaact tcacatcccc atgtaacttat tctcagcaa 180
ttcacccttt	gtgaatagtt ggttgccttc tgaattattg atcaccttct ctctctctct 240
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ctctctctct	gtctctctct ctccctccct cegtccaata tgctgttttc ctttcagtggt 480
gagtgtaag	tgcttcttca ctccaagggc tagaattgct atatagctat atgcaagcct 540
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tgagggtgg	tttcttcatg tottaactta tgagatattt ttattcagaa taactttctg 660
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<210> 1035  
 <211> 899  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR203-6P

<400> 1035						
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ggcaacattg	gcatgatcct	gctcatcaag	cttcattctt	cactgcacac	tcccatgtac	180
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gacactgggg	cactgcaaaa	ttttatgagc	acaagaccat	ccttccccct	cacaggatgg	300
acaatgcaat	tgtatatcta	tggtatcttt	ataaacagtg	actgattcat	cctagctgct	360
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cagagatggc	attctgggtgc	ctctgtaaat	acagggtttta	ctttctactg	aaacttttgc	480
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ctccagtact	gacttcaata	ttgtgctgtt	gacagttttg	tgggttttaa	ctttatcttc	600
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agaagaaggt	gacttatgtg	tcctatttta	ttattattcc	catgttaaac	ctcctcgtgt	840
gtagtgtaag	aaaccaagat	atgatagaag	tcttgaggca	catagaaaac	aaatgtttg	899

<210> 1036  
 <211> 581  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR223-7P

<400> 1036						
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aagccatcct	aaccttccgc	ttgccctact	gtgggtcccaa	tcaggtagat	tacttcttct	180
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cctttgtgga	cattggagtg	gtggttgcca	gttgcttctc	tctgatcctt	ctttcctaca	300
tctatatcat	tcgggccatc	ctgaggatcc	gtacagctga	tgggaggcga	agggccttct	360
caacatgtgg	ggcccatgta	accatgggtta	ccgtgtacta	tgtgccctgt	gccttcacct	420
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tcacaccttt	cctcaatccc	ctcatctaca	ccctgaggaa	ccaggaggtg	aagttagcct	540
tgaggagaat	ggtaggaagc	caaagcacta	agagtggggg	c		581

<210> 1037  
 <211> 941  
 <212> DNA  
 <213> Mus musculus

<220>

<223> MOR167-5P

<400> 1037

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tttttgataa ttctaactgt gctgaattct cacttcaca ccactatgta cttttcctct 180
ttaacttgtc ctttgtagtc ctttgctatt cttcagtggt cactcccaa atgctgatga 240
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tttctttctt tctttctttc tttctttctt tctttctttc tttctttctt tctttctttc 360
tttctttctt tcttgagtgt tgcgttttga cttcaatggc ctatgatctc tatctgtaac 420
ccactgttat ataatctttt catgtccctt aagtaatgtt tgaaccttat tcttggtcca 480
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ttgtaatttt ttttttttgg ttgggtgcat taatatcatt gttccttctt caactatact 660
tatttcctat gatttcatcc tctccagcat gttctgcatt aaatcatctg agggtaggtc 720
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tgcattttgtg tatttcaaat cctcctcagc tgggtctttg ggtgaagaaa atatttcttc 840
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<210> 1038

<211> 966

<212> DNA

<213> Mus musculus

<220>

<223> MOR0-10P

<400> 1038

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<210> 1039

<211> 710

<212> DNA

<213> Mus musculus

<220>

<223> MOR239-8P

<400> 1039

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ccctcccat ggacagagct gtctccatca cattcaactgt catcattcct gtcctcaacc 660
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<210> 1040

<211> 449

<212> DNA

<213> Mus musculus

<220>

<223> MOR133-4P

<400> 1040

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aataagaatg aattcccacc tccacacatc catgtaagtc ttctagtga tctgtcctta 180
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ggtccaaagg atccagggcc accttctggc ctccacaggc atgcacatgg tgcatatgca 300
tacatacagg caaaaattca tacacataaa ataagtaatt ttttaagtca tgtagaaagg 360
aaagtcactt cttggccatg actcaagaga caaaattatt catgctatta gtttacatcc 420
ctggagtga gttctattta tcaagcatc 449
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<210> 1041

<211> 746

<212> DNA

<213> Mus musculus

<220>

<223> MOR177-13P

<400> 1041

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tggcatgac attttaatga gaatggatcc ccagctccac acatccaagt acttttactt 180
gagccatctc tctttctctg atttctacta ttctattgca attgttctca aagtgtcagt 240
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ttcctgcacc ttgagcagatt gagtatatag tactggcagc gatgtccttg ttagatacca 360
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aaataacttt aatcttcac tattat 746
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<210> 1042

<211> 661

<212> DNA  
<213> Mus musculus

<220>  
<223> MOR264-15P

<400> 1042  
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caaaaaagag ctatgtcttt cattgcctgt gctacaaaac tgtgcttcac tcctaccctg 300  
ggagccacaa agggattttc cctggctgtg atgtacaatg acatttatgt ggctgtcggg 360  
aaccctctgc tctattctct actcctaaga ctcacctgtg gatcaagctc tcagctggat 420  
cttgggtcag tgggatgaat tctggtacag gtagattgca gacaacacaa agtttatatc 480  
acttgctggg tcccaccaca ccaatcacat cttttgtgac ttccttgata tttcagcttg 540  
cctgtgaaaa cgtttataaa cgagatgggtg atcttcctag atgctgtttt gttttgctga 600  
tcttcatttc ttttattttac ttataatata ttacaaaatt ctgacataat tattatctaa 660  
a 661

<210> 1043  
<211> 303  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR281-2P

<400> 1043  
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ggcgaatgtg ggcgcggctc ccaacataat acttctgtgg cccctttgct aaaccctttc 180  
atttaccccc taaggaacaa acaggtgaaa gaagctttca aacatgtgct tcatagattt 240  
tgttttctac aaaacaatga gacaatgttc agacatgctg ttgaaacatc aggagtaaaa 300  
tag 303

<210> 1044  
<211> 826  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR171-38P

<400> 1044  
cccaccatgc tctagttctc ttacatatgt acatattctg ctggggaaga gaggttgttt 60  
acaccactag aattaatagg ccatatggta agttgatcat ttttagtttt aagctctacc 120  
aaaatgtcat taacttctaa tgatgatgag ctttgtgcaa gacaatgatg tcaactcctc 180  
cctgaactaa atgactctgc tctcttctct cctaataatt gttacatatg ttaactgggtg 240  
gcatgcaacc agtggcatat gaccactacg ctgtcaccag caactgcttg gtaaataatg 300  
tcatcagtct taacaagtct gtttctggat ggtaagtgag atgcatgcta tgggcttcac 360  
tgaagataca attcaaacac tctgcatcct gagagtgctt ttatgcaagg gtaaagtgat 420  
tgtcaataag atagtgtctc tgtacaacag tgattcaata tgttccaacc caggccacta 480  
tagccccctt cacgttcaac atcacctgca tcctatgtat aaaatccacc aatggcagag 600  
tcaatgcgtt tagcagctac aattcccact tctttgcagt tgttgtcttt cttgttctct 660  
ggcttcatat attttcaacc ttcatttgct ccaagaagaa aaataaagca tcatctctgt 720

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 caaatttact ctaaggaagg tggtaagaa acagaatttg cacgtg 826

<210> 1045  
 <211> 693  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR171-39P

<400> 1045  
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 tattcatctg tcattatccc taagatgttg gtgaacttgt atgtgagaag gacatgatct 180  
 ttttggagtg tatgattcag ctgtacttca tcatttttgt cattgcagga ggctccctgc 240  
 tgacagccac aacctatgac tgccagggtc cagcctctgc acaggatcag agttctaaac 300  
 tggaagcagg gatacctgga agacgcataa caaacacaca tagacacctt tttcaggaac 360  
 aatctctcag gcaagtttcg aggcttgagg ttgctcttca tctctctgtg tctctttgtc 420  
 tctatctctg tctctctctt ctgtctctgt ctctgtctgc acatactctt cactctctctg 480  
 cacactttgc ttttctcttc tgcactttgc ttttctcaaa ctcccatgt ttctacacac 540  
 ctctgtgtac tcacctttca ctacacata tactatttac acacacctca cacacattcc 600  
 tctcatgtgt tctttcactc acatagacac acccctcaca ctcaactctt tcttgtactc 660  
 tttctcacac actccatatt cctcttgcoct ttt 693

<210> 1046  
 <211> 669  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR136-17P

<400> 1046  
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 ttagtatcat gagaaaagag cttggtgcat tattagaagc tgtttttttg atcttgtaca 180  
 atgccagctc cttcacttgc gtcttctaac attgttgtct ttctgtgctg atggcatgct 240  
 tctgttaaga cctaactgcc atgatcaaat tatcctgctt agataccttc ctaaaagaat 300  
 tggatcatgtt cacagtcagg gtggcagtc ttttttggca tttatatgta cattgggtatc 360  
 ttatggatac actggggcca cagtcctgag gggcccttcg accatgggga tttataaagc 420  
 attgtataca catggcttct acctcttggg ggtgtcttta tattatgggg gtattttgga 480  
 tagtaccttt tcccagaatt aagcaatagg atggacaagg acaccattat agctgtcatg 540  
 taaacagctg tcacacccat gttaaattct ttcattttgta atctaagaaa tagggataca 600  
 aaagaagcac tagggatact cttgtcaagt aagaggtttt acatgataac atctgaatac 660  
 tttcactga 669

<210> 1047  
 <211> 935  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR175-8P

<400> 1047  
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tatggtttgc tggctctttt gaggggaactg agtgtttcct cctagctgcc atggcatatg 360
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gtgcacagtt tgtcatttgg ccttatcttc tggctgctat aaacatcaaa actcatgaaa 480
ccttgacctt ttgcttacca ttttgtgggt ccaatactat caacatttct tctgtgatat 540
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tttgatggcc atcttgaaga tccagaccac taacaggaga atgaaagact tctctactta 720
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gaaaagtaca aaggaaacat ttttcaagag attgg 935

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<210> 1048  
 <211> 763  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> variation  
 <222> (746)...(763)  
 <223> Any nucleotide A, C, G or T

<220>  
 <223> MOR0-11P

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<400> 1048
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cttaccctca tgggcaatgc ttccatcatc tgtgctgtgt gctatgatct tcctccttct 180
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tatattttcca cacaatttct ttttgttttc tttttctttt ttaaattttt tcagtcaact 300
ttttatttat ttatttatat atttatttaa ttacatttc aaatgttatc acctttccta 360
ctttccctc ctaaaatccc ctatgcctc tcccctccct cctgtttacc aaccaccta 420
ttcctgcttc ctggccctgg cattcctcta ttttggggca tagaaccttc acaggaccaa 480
gggctctcc tccattgat gacctactag gccatcctct gctacatatg catctagagc 540
catgtgtttt ctctgattgg tggtttagtc tcagggatct ctgggggggt actggctagt 600
tcatattatt gttcctccta tggggatgca aacccttca gcccttggg tctcttctct 660
agctccttca ttgggggttat gtttttctaa attctattac cccaaccatc tatgctacac 720
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<210> 1049  
 <211> 690  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR162-9P

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<400> 1049
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gacagatatg ctgccatttg taagccctg ctttaccagg tcaccatgtc tcatcaggctc 180
tgcctattga tgactatggg tgtgtatgtg atgggctttg caggtgcctt gtcccacata 240

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gtttgcatgc	tgagactcac	cttctgtgat	ggtaacatca	ttaatcacta	tgtttgtgat	300
gtacttcctc	tccttaaact	ctcctgcaca	agtacctcca	tcaatgagat	ggtagttttt	360
attgttgtgg	gtgtcaatgt	gatagtcccc	agcctgactc	tctttgtttc	ttatacctta	420
atcctttcca	acatcctcag	catccattct	gcagaaggta	gatcaaaagc	cttcagtacc	480
tgtggctccc	atgtgatggc	tgtttctttt	ttctttggag	ctgcagcctt	catgtatctt	540
aagccttcta	gtgcatctgt	ggatgaagag	aaattatcta	ccatctttta	taccattttg	600
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agaaaaacat	tgatgaaact	gaggttttcc				690

<210> 1050  
 <211> 832  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR162-10P

<400> 1050	
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attgtgggga	acctgggctt gattgtttct attgtcttga atcctcacct ccacaccccc 180
atgtactact	ttctcttcaa cctttccttc acagacctct gctactcctc tgccataacc 240
cccaaaatgc	tggtgggttt tgtgaaccag aacatcatcg ctcatgctga atgcttgact 300
cagctctttt	tcttctgctt ctttgttctt gatgaatgtt acatttgtac agaaatggcc 360
tatgacagat	atgctgccat ctgtaagacc ctgcttaacc aggtcaccat gtcccatcag 420
gtctgccttg	gaaatcacia aaggctggat tatattatat tcagaaatgg aaaaatcaaa 480
aaaatctttt	taaatgtaca tatctatttt attatttttt agtttgtttg gggacatcat 540
atccctaaag	tctttcatgc taagcaagtg tttaaccact gacctacatc ttaagagtag 600
gcacatttgt	aagttttgtg tggctgtctc agacaatgtc ttactacttc acatagcaaa 660
cctctgggat	aattttatagg agagttcatt ttaaaggctc atttgctgct caaaaggctg 720
aagtaaggag	ggaaaatgaa aactcctttc tttctggctc tttttcattg tcttaaagca 780
gtttcgtaaa	gaggggttaa caagttatca accaagcaat atacatgact cc 832

<210> 1051  
 <211> 657  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR0-12P

<400> 1051	
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gatcagagta	actgtcttgg ctacatctct ttctctcgcc ccctagcccc tcttctcttc 120
caggtttcca	aaatgcattt ccaggctaga acccaggttg tggctctgctg gccggacaca 180
acaattaggt	ttgctggaag ctctgtccac acaggctgtg tctttctata aggacatgcc 240
atcaatcact	aattgtttta tattctgacc ctcttcaac tttcttgagc caccacctat 300
gttaatagtg	gtaattctga taggtgtatt atatcacagt cccagtttt accatcctta 360
tttctatgt	tttcatcttc attaacattc taaatatcaa atccatgcaa agaatatcaa 420
aagacttcag	tatttgtaga ttacacattg cttcaattta tgttttcatt gagtttacag 480
cattcaagtg	ttttaaatat tcatatggat ctatagacca aggattttat tttctgtttc 540
tacactgatg	tgatactcat cctcaacatt ataatctata gtatgtgtat catggatgta 600
gaaatggcac	ttatggatgc tttgatgaaa tttcagagaa atgtatttca tttatag 657

<210> 1052  
 <211> 829  
 <212> DNA

<213> Mus musculus

<220>

<223> MOR171-40P

<400> 1052

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caactacaca caoctgttgt tatttactaa gccgtctgct ctttattgac tgctctaagt 180
ccaccgtcat tactcccaca atgctgctga actttgogac agagtagagt gtcactctgct 240
actaagaatg catacctcag tactacttct gtgcttttgg tgctgcaaaa tgtgttctgc 300
tggctgcagt ggcataatgac ctctgtgttg ctgtccacaa tcctttactt tacaatttaa 360
tcataatcta tcaactctgg tcctagattg tgggtgggta tatggtaggg gtttactatg 420
taccgtagct cacactgtct ttgtgctaag agttttttgt ttctgcaag actggtatat 480
taaaccatta ctctcgggtt ctagtacttt tatcagtga ttagtagtcc agtgcattta 540
atctcactct tctatgtctg ggcattctta gctattatat cttcatcatt tttagtttat 600
tccaaagtat tcaaagtact tcaactgacg gcaggccaag agccttttagc acttcagat 660
ccagtatttt ggctgttact gtgttttggg gttacatcct agcattatct tcatagacga 720
aggaaaagtg ttgactatgt cttataccat ccttgagtcc atggtaaaat cgagaatcta 780
tagcctcaga aataaagatg ccaaagtggc catgaaaaac tatccaggg 829
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<210> 1053

<211> 914

<212> DNA

<213> Mus musculus

<220>

<223> MOR214-8P

<400> 1053

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ttaccagaga taataatact gctctttgtc acattttctgc tcatctacat tacaactctg 120
acctggaatc tgtccctcat tgtgttaata agaattgatt cacacctcca cactcccatg 180
tatttctttc tctataacct gtccatcata ggactttgct atgtcacctg cacagtccca 240
aaaaaaatgc tctcaaactt tttccaggaa aagcaaacta tcagctttgt gggctgcatt 300
gttcagaatt catctttttc accatggggc tgagtgaagc ttgtctcatg gcagccatgg 360
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cagttgttag ttctgtcctg catagacaat tcctgactgc catattaaca atgatctttg 600
gatttgtaaa catgctagtt atcatgatat cttatggcta tattgtcatg tccatcctga 660
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ctgtttccct attcctcacc tccagtatct ttgtctattt gagttcaagt tctgggtggc 780
cctccagttt tgacagattt gtgtctgttg tctacactgt ggtgattccc gtgttgatcc 840
ctttgatata cagtctgaag aacagagaaa tcaaagatgc tatgaagagg ttaaagaaaa 900
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<210> 1054

<211> 859

<212> DNA

<213> Mus musculus

<220>

<223> MOR137-1P

<400> 1054

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cctcatgtac	ttattcctca	tcattcttgca	catatggctg	gattctcacc	cccaagtccc	180
catgtacttc	tttctcagcc	acttggcttt	ctgtctcatc	agttactgtc	tcagagatgc	240
tctggagcat	ccagactcag	cacctaagca	ttccctatga	ggggcatttc	tcaaatctag	300
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gtatgtgtct	atctaacatc	cactgtatta	caccattgtg	atgagggagg	agctgtatga	420
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taaacacccc	cttcaatgag	ttagtgatct	tcattgaggg	agtgttgact	ttcctgccac	600
tgggtaccat	ttcaggccct	tatatctgta	ctggggctac	tggttctaagt	gtccctccat	660
gaagaatatc	tacaaagttc	ttcatgggtg	ttttgcaacta	taggtacttg	caattattta	720
tttctttcat	ttctcaaata	attccaaatt	taagggtgtg	attgtttcag	ttatgtacac	780
agtggtgaca	accatgctga	accccttcat	ctacagcata	gaaatataaa	aattggcaca	840
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<210> 1055

<211> 915

<212> DNA

<213> Mus musculus

<220>

<221> variation

<222> (501)...(603)

<223> Any nucleotide A, C, G or T

<220>

<223> MOR189-4P

<400> 1055

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ggcaacttgg	gcatgatcat	ccttaccatg	gtggaatcaa	ggctacaaac	acctatgtac	180
ttttttctca	gacaccttgc	tactactgac	cttgggttatt	caacagctgt	gggaccaaaa	240
atggttaagaa	gttttcttgt	agaccaaaat	agaatatcat	ttcatttctg	tgctgtccag	300
tttgctttct	ttagcatggt	cattattagt	gaatttttta	ttctgtctgc	aatgtcttat	360
gaccgttatg	tcgccatctg	taaaccactc	ctctataatg	tcattatgtc	acaaagagtg	420
tgttgggtcc	tagtgacaat	cccatacctt	tagagtatat	ttgtcgctct	catagccacc	480
ataaatattt	tttcttcttc	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	600
nnntcaccac	tggtcatcct	tgtttcctat	ctgctcattc	tcagagctat	tctcaggatg	660
aactctgctg	agggcaggca	gaaggctttc	tccacctgtg	gatctcatct	gacagtagtt	720
attgtattct	atgggacatt	gatttttatg	tatgtgcaac	ctaagtccag	tcactcctta	780
aacactgaca	atgcagcttc	tattttttat	accctaatac	tccttatggt	gaatcccttg	840
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<210> 1056

<211> 902

<212> DNA

<213> Mus musculus

<220>

<223> MOR188-6P

<400> 1056

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cctgagtttc	aggtactatt	gtttggactg	ttcctcatca	tttatctgac	ctcactgggtt	120

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ggcaacttgg gcatgatcat ccttgccatg gtggattcca ggctgcaaac acccatgtac 180
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ttctttaga tcaaaatgca atatcatttt atgcctgtgc tatccagtta tctttcttta 300
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cttctgtaaa ccaactcctct acactatcat catgtgataa gcaatatggg catgatcctc 420
attactattg tggactccag gcagaaaaca cccatgaaca ttttcttcag acatgtagca 480
actacaattt tcatttatta aacagctgtc aataccaaaa ttttgagata ttttattgtg 540
gatcaaaacc agtatctttt agactttttg cttcacaat tagccttcta tttttcctc 600
atagcttggt agctttttat tttttataa tctctgtgac cagtatgtgg ccagtagcag 660
caaacctctg cttttatggt catcatatca aaaagagttt gttggtgtct agtggcgatc 720
attaacttta cctgacaact ttgcctgtta taatgaaaat taagatgttt actttgtttt 780
tctgtgtgca caagtcatca gtaatttcta atgcaacagt cttccttttt aacgttgctc 840
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tc 902

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<210> 1057  
 <211> 828  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> variation  
 <222> (416)...(435)  
 <223> Any nucleotide A, C, G or T

<220>  
 <223> MOR191-2P

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<400> 1057
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ggtaatttgg gcatcatcat tattactaac gtgggctcca ggctctgcat acccatgtac 180
ttttttctc aaacatctgg ctttcaactga tcttgatat tctacagcca ttggaccaa 240
aatgttagtt aattttgttg cagagaataa ttcagtctcc tattacctt gtgctacaca 300
gttagcttgc tttcttcttt ttattacttg ggaactttta atttttctt caatgtccta 360
tgaccggtat gtgcctatat gtaaccctct tctctatact ggcatcatgt cacaannnnn 420
nnnnnnnnnn nnnnntgaat tttgggtact aatcctaact tttttatta taattatatt 480
agagaagaaa ataaaagtgc ccttgctttc cttcaggggg aaggggagaat ttaaatagca 540
ggacttgagt acactctgta tagagtagta tcacgttgaa gtgtcaagt atcacaaatg 600
tgtgtcattg agttttatga tgtctgggaa agccaaagag actttgaatt gtttgtgtag 660
tttattaaca tttcagtga aaaaaatgta gggtcattg tgtgtttatt tctgtttttc 720
tatggtgtat agaggcaggc tttctatttt aggctacaat tcatttatat gtgttgccct 780
caaatgaaat ttgattatga catcaaactt ctaatttcag ttcattat 828

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<210> 1058  
 <211> 813  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> variation  
 <222> (582)...(687)  
 <223> Any nucleotide A, C, G or T

<220>  
 <223> MOR248-13P

```

<400> 1058
atggatggag gcaatcaaac aattgtatca gaatttatac tccagggact tgccaactca 60
aagaatattc aggtottact cttcatgata ttgttgactc tttatcttct catcatgtct 120
ggaaatattg tcatactgat ctttaataact actgaccccc atctccttct ccccatgtac 180
ttcttgttgg ccaacatgtc ctttgttgat atgtggctct cttcaaacat cactcctaag 240
atgatcacag gttttctcag ggaaaacaag accatttctt ttgcaggatg catgtttcag 300
gtcttttttt cccattgcat tgctgcagga gagatgggtg tggtgggtgg aatggcttat 360
gatcactatg tggccatctg caaaccactc cactacatca ccatcatgaa ccttaagaga 420
tgactgggtg tgggtgtcac ttctgggata attggcttta ttcattggat aagtcacttg 480
gtagtgggtg tgcattctgcg tttttgtggg cccaaggaaa cagacagttt cttttgtgac 540
atgccactgg taatcaagct agcctgcatg gattcccata annnnnnnnn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnnnata aagttgtact ttacactttt tgaccaaact 720
cacatgttta aacaggggat aaaatattaa taaatttttc ccgagtattc atctgtagat 780
gctatacata cccccaaatt gtcaacttct att 813

```

```

<210> 1059
<211> 706
<212> DNA
<213> Mus musculus

```

```

<220>
<221> variation
<222> (267)...(286)
<223> Any nucleotide A, C, G or T

```

```

<220>
<223> MOR0-13P

```

```

<400> 1059
acacacacgg aggactctaa tcaaactgtg gttttctgct ttattttttca gggactgtgt 60
acctcaaggc aacttgagat cttcctctta ctaccatttt ctgtcctcta tctgatgact 120
ttggtagata acctctttgt agtgatattg atcatcactg atcatcattt caattctccc 180
atgtactttc tgtcagctaa tctatcattt ggtgacttct acctttcctc agtaaataca 240
ccaaactga ccatagatct cctaaannnn nnnnnnnnnn nnnnnntctt aatgagtgtt 300
ctattgctgt gaagaaacac cttgaccatg ccagctttta taaaggaaag catttaattg 360
ggaatagctt gcagtttcag aggtttatth cattctcatc attgtgggta gcatagcagc 420
atgcaggtag acatggtagt ggagatatag ttgagagatc tacagacaga tccatgcata 480
acaggaagaa agagactctg aacttgaaat aggccttttg aatcacaaat ccttccttca 540
gttgacactc tctcacaaca agatcatgcc ttctaactct tctcaagtaa tgccactccc 600
taacgactaa gtattcaaat atattagtct ataaaaggta ttcttattca aggccttttag 660
ccttatcata atgtaaaatg cattcagtc tacttcaaaa gtctcc 706

```

```

<210> 1060
<211> 943
<212> DNA
<213> Mus musculus

```

```

<220>
<223> MOR110-8

```

```

<400> 1060
atgaaaaata agtcaatgga acttgacttt attcttttgg gattgacaga tgaccacaaa 60
ctgcaaattg tggtttttct gtttctcttt ctcaattatg tgatgagcct ggtggggaac 120
ttaatcattg tgcttctcac cctgctggac cctcgctcca aaactccaat gtatttcttt 180
ctccgtaatt tctccttttt ggaaatcatg ttcacaacag tgtgtattcc cagattcttg 240
acgaccattg tgactggaga caaaactatt acttataata attgtgcagc tcagttgttt 300

```

ttcattcttt	tgctgggagt	cacagaat	tatctcctgg	ctgccatgtc	ctatgaccgc	360
tatgttgcca	tctgcagacc	actgcactac	cctatcatca	tgaacagcaa	agtgtgccac	420
caactcgtcc	tcagctcctg	ggtgactgga	ttcttgatca	tctttccccc	attggccatg	480
ggtttgaagc	tggatttctg	tgattccagg	ataattgata	atttcatgtg	tgaaacttct	540
cctattttac	agatctcctg	cacagacact	catgttctag	aatgatgtgc	ctttgtctta	600
gcagtgggtga	cacttgtagt	cacactggta	ctagtgaagt	tctcttactc	tttcatcatt	660
aagactatta	tgagtttccc	ttctgcacag	caaagaacca	aagccttctc	cacctgcact	720
tcccacatgt	ttgttgtctc	cataacatat	gggaagtgtg	atcttcatgt	atattaaacc	780
atctgcaagg	gagagagtgt	ctgtgtctaa	aggtgtagct	ctgctgtata	cttcaatcgc	840
ccctctcct	gaacccttcc	tttatacact	aagaaaccag	caggtgaaag	aagtcttctg	900
ggatgtatta	caaaagactt	tgggcttttc	aaaacacaaa	ggt		943

<210> 1061  
 <211> 663  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR224-8

<400> 1061						
tcctatgcag	gttgtgtgtc	ccagctgggc	ttctatcatt	tcctgggtgg	tactgagtgt	60
ttcctgtaca	cagtgatggc	ttatgaccgt	tttggttgcca	tatgctaccc	tctacgctac	120
tcagtcataa	tgagtcataag	aatttgtgcc	ttcctggcca	tggggacagc	agttttcggc	180
tgtattcatt	ccacctttct	aactactctc	accttccagt	tgccctactg	tggcccaaaa	240
gatgtgaact	attacttctg	tgatattcct	gtgggtgatga	agctggcttg	tgcacacaca	300
tcgaccctgg	agatggtagg	gttcatcagt	gtgggtctca	tgccctcag	ttgcttcttc	360
ttcatcctca	cctcctacag	ctgtatagtt	cgggtccatcc	tacagatccg	ctccactgag	420
ggtcgacata	gagccttctc	cacctgcagt	gcccatttta	ctgccatttt	gctcttttac	480
atgccagtga	ttttcatttta	tctaaggcca	acaccaagtc	cttggttgga	tgcaactgtt	540
cagattctga	acaatctggg	cacctctatg	ctaaatccgt	taattttacag	tcttaggaat	600
aaggaggtga	aatcatcact	gtggactgtc	ctacatctgc	tgtgcttct	tccaagcat	660
ttg						663

<210> 1062  
 <211> 597  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR267-11

<400> 1062						
atccttctca	ctttgatggg	gtatgaccga	tttctggcta	tctgcaaccc	cctcagatat	60
cctcttctaa	tgaccaatgt	tgcatgtgga	caacttgtgg	cctctgcttg	ggttgagggc	120
ttctttat	ctctcattga	gacaacactg	atattcaggg	tgtctttctg	catacctaac	180
ctcatcagac	acttcttctg	ccatatgagg	gcagttctga	ggctgtcctg	cacagacagt	240
aacttcacag	aattcattgt	aacactgatg	tcagtgtctg	gtttgctggg	tacattcttg	300
ctcatcctcc	tgacttatgt	gttcatcctt	tcttctgtcc	tcaagatccc	ttcagctgag	360
ggtaaacaaa	aggcattttc	cacctgtgcc	tcacacctca	ctgtggctct	catccacttt	420
ggttttgcat	ctgttggtta	tatgaagcca	gaaaactccg	gaggagatga	cacactcata	480
gcagttccat	ataccgtcat	taccccatcc	ctcagtcaca	tcatattcac	actcaggaat	540
aaggatatga	agaatgcttt	cagaaagatc	atgagaaaga	cagtagtctt	gaaaaaaa	597

<210> 1063  
 <211> 551  
 <212> DNA

<213> Mus musculus

<220>

<223> MOR231-17P

<400> 1063

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agggatatgta ttctcttctt ggtgatggcc tgggogggag gtcttgcaca tgcttttgtt 60
tcaagttctc gctgtatata attttccatt ctgtgggtccc aatatcattg accacttttg 120
ctgtgacata taccactat tactacttgc atgtactgat acatacttcc ctgggccttt 180
ctatcattgg caataatggg gcaatgtgca tagtcatctt cactctcctc ctactctcct 240
atgggataat ccttagattt ctcaagaatc acagtcagga agggaggcgc aaagctctgt 300
ccacctgtgg ctcccatatc actgtggttt ttctcttttt tgttccatgt attttcatgt 360
atggttagacc tgtttctagt ttctctattg ataaattcat cactgtaatt tataccattg 420
ttactcccat gttgaatcct ttaatatata ctttgagaaa ttcagaaatg aaaaattcta 480
tggaaaagct cctgcagaaa acattaagtc caagtagaat acggctgtct tcttgctgct 540
tatgttacta a                                     551
```

<210> 1064

<211> 462

<212> DNA

<213> Mus musculus

<220>

<223> MOR114-10P

<400> 1064

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accctgataa tttctatcaa tataattgac tctaatatca ttgatcattt tggatgtgat 60
gtaaaccctc ttctgaaaat atcgtgctca gacaagtggg taattgagca gatggtaata 120
tgctcggcag tattgaacct catcattact cttctatgtg cagtcttttc atacatgtac 180
atcataagga cagttctaaa attcccttct gcccaacaaa agagaaaggc cttttctacc 240
tgctcttcac acatgattgt ggtttccatc acctatggca gttgcatctt catttacatc 300
aaaccatctg caaaagaaga agtgaccatt aataaatgtt tgtccgggct tatttcttcc 360
atatcaccca tgctgaatcc ttcatatat actctaagga acaagcaagt taaacaagct 420
tctcaggact taattaagaa aattgcattt ctcttaagaa ag                                     462
```

<210> 1065

<211> 401

<212> DNA

<213> Mus musculus

<220>

<223> MOR274-3P

<400> 1065

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acatcactct atgaaaccct tgaatgtatg catgctgtgt gctgatgcta ctaatcccaa 60
tactcttcat ctgagtctcc tatacacgga tctcatcac tgtctaccac atgagctctg 120
ctgagggcgc acggaaagcc ttaccacgt gttcctccca cattatagta gtgagcattt 180
tttatggggc agctttctat accaatgtac tgccccattc ttaccacaca cctgagaaag 240
ataaggttgt ctgagccttt tataccattc tactctctat gttgaacca ctcatcttaca 300
gtttgaggaa tagagatgtg gctgtggctc taagaaaagt cctaaggaaa tatgcttctc 360
ctcagagatt acgagtgaga cacatacctg agaaatacta g                                     401
```

<210> 1066

<211> 693

<212> DNA

<213> Mus musculus



<220>

<223> MOR40-10P

<400> 1066

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caggtcctgc ttatcttctg gttcaacatg aaacccatca gctttgtggg ctgcttctctg 60
cagatgtttg tcatgaatac ctctcttctt atggaatcct ctacctttct ggtcatggcc 120
tatgatcgct atgtggctat ctgccatcct ttgtgggtcc tatccatcat caaaaaacag 180
tttgtcatta atgcaggcat ttttattgtt gtcogcaatc ttctagctac actgcccact 240
ccagttctgg ctgctagact caattactgt gccagcaatg tgggtggagaa ctgcatatgt 300
gccaatattt ctgtagcaaa actttcctgt ggggacattc gcctaaataa gctctatcaa 360
tttgtgagtg tttggtgcct actagggttct gatctgggtcc tcatttttgc ctcttactgc 420
ttcatcttga gggttgttat gtgtcagcag tctggaggca ctgtcaccaa ggccttgagt 480
acttgtgggt caccatctcat ccttatactc ttctctata ctttgttgct agtctttatc 540
ttcacaacaa aggcaggaaa gaagataccg tcagagggtac caattcttct taatgtgctg 600
catcatctca tcccacctgc cctcaatccc attgtgtatg gagtacgaac ccaggaaatc 660
aagcagggga ttatcaagct attcaaacac tag 693
```

<210> 1067

<211> 937

<212> DNA

<213> Mus musculus

<220>

<223> MOR245-18

<400> 1067

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atgaatgaag caaattactc agaagtatct gaatttatat tcctgggact atcaacctac 60
agaccaacac aatattttct ctttgctttt gctataatat catatgcagc aacattttctc 120
ggaaattttct cagttgtggt tatagtgatc ttgaccctc atttacattc acccatgtac 180
ttccttttag ctaatctttc attcgttgac ttttgttttt ctacctcaac agttcctaag 240
ttgattttctg acctgtactc aggtcacagt atcatttcaa tccagagctg catcttccag 300
atgtttgtcc tccatctact ggggggatgt gagatgggtg tgctggtagc catggcctgg 360
gacagatatg tggccatatg caaacccctc tactacctga ccatcatgaa cccacggatg 420
tgtcttttgc ttttgattag tgcttggtt attgggtctca ttcattcagt ggctcaatta 480
gcttttgttg tccatttgcc tttttgtgct tctaatagaga tagatagctt ttactgtgat 540
cttctctgat tcatcaaaat ggctgtata aacacctaca gaatggagtt cttggttact 600
gctgacagtg gatttatttc tctcagtaac ttctttttat tgattatctc ttacatcttc 660
atactgttta ttgtacggaa acagtccttg ggcagtttgt ccaaggcctt ctctacactt 720
tctgtcaca tttgtgtggt agttttgttc tttggaccat gcacttttgt gtacatatgg 780
ccatttctca ctgtgccagt gggataagtt cctggccatt ttggacttca tgattatacc 840
catcctgaac cctgccattt atacactgag gaacaaagac atgaagggtg caatgagaag 900
actgagtgtt caactcctga gtaggaaaag tatctgc 937
```

<210> 1068

<211> 684

<212> DNA

<213> Mus musculus

<220>

<223> MOR248-14P

<400> 1068

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atggaagact ctaatcaaac tgtggtttct gagtttattt ttccagggaac tgtgtacctc 60
aaaggcaact tgagatcttt ctcttattac cattttctgt cctctatctg gtgacttttg 120
taggaaacct cttttagtg atattgatca tcattgatca tcacttccat tctcccatgt 180
acttctgtgt agctaattca tcatttgttg acttctgcct ttctcagta aatacaccca 240
```

```

aactgaccat agatctccta aaagaaaata aaaccatttc ctttggcggc tgcatgagcc 300
agatcctctg tgtgcatttc tttggaggaa gtgagatggt gcttcttgta acaatggcct 360
atgaccggta tgtggccatc tgcaggccac tccactacag cagcatcatg gacagacaga 420
agtgcattct gctcgtttgtg atatcatgga ttgttggatt tgtgcatgcc attagtcagt 480
tgctcttgat tttggatcta ccattctgtg gacctagagt gatagacagc tttttctgtg 540
atattccttt ggtgatgaaa ttagcctgca tgaatactga tactctggaa atcctaataa 600
atgctgacag tggcatttta gcaacttact tgtttcactc tcttactgat atcttatact 660
tatattctat taactgttca acat                                     684

```

<210> 1069  
 <211> 813  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR264-16P

```

<400> 1069
atggctatca ttggagaaga aaatatgact caaatttcag aaattattct tttgggtttt 60
ggagatctcc atggccttca gtttcttctt tttgggctat ttctagccat ttatgttatg 120
actctcctgg gtaacattgt aattctcacc gtagtatcca ctgattgctc ccttcacaca 180
cccatgtatt tctttcttgg ccacttctcc ttcttagaga tcagctacac cacaacaatt 240
gagcctgtaa tgctgtggac attgttatcg gctcatgtgc ctatctcctt gccagcctgt 300
gcttgtcagt tttacttttt tgcatctttg gtggcaacag aatgcttctt ccttgctgta 360
atgtcttatg atagatacat agccatttgt aacccactac actattccag tatcatggac 420
tcctgggggt gtttcacagt agcattggcc tcttgggttg ctggatttct ggcacctatc 480
ttactcatga tcttgatttt tcgcttaaca ttttgttctg ccaatgagat tgaccacttc 540
ttctgtgatt tgaagcccat catgaaactg gcctgcaacta atactcaagt agctgaaatg 600
acttctttta tatgtacctc attattcgct cttgggtccct tcatactgac cttgggttcc 660
tatattcaca tcatttgcac cattctgagg atcccttcga ccacagggaa gcagagggct 720
ttctccacct gttcatctca ccttatagtg gtcagtcttt attatgggac tctgggcatt 780
gtctatggct tcccatcaat gcctcaatat gaa                                     813

```

<210> 1070  
 <211> 402  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR34-9

```

<400> 1070
aagttgccct gtggcaatgt caaggtgaat gccatttatg gtctaattgg tgctctcttg 60
attggggggt ttgacatcct gtgtatcaca atctcctata tcatgattct gagggcagtg 120
gtcagcttat catcagcaga tgctaggcag aaggccttca gcacctgcac tgcccacatc 180
tgtgccattg ttttctccta tagcccaacc ttcttgtcct tcttttccca ccactttggg 240
gggcacacaa tccctccatc ttgccacatc attgtggcta atatttatct gcttttgctt 300
cccactatga accctgttgt ctatggagtg aaaaccaaac agatacaaga ctgtgtcata 360
aggatttttt cagagtctaa ggattccaaa gctcacggta ta                                     402

```

<210> 1071  
 <211> 378  
 <212> DNA  
 <213> Mus musculus

<220>

<223> MOR256-42P

<400> 1071

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ttggcctgcc aggacacagg aaggaacaga gggccaagat gtttgtggcc agagcccata 60
atcttgggtct tccctgcaac attaattctt ggctcctatg gacacattgg ctaaagcagt 120
actaaaggggt caagtcaaca gctggacgca gaaaaagctt ttgggacatg tgggtccac 180
cttctgggtgg ttccctggtt ttatggctca gccatttaca catacttgca acccaagagc 240
agttattctg agagtgatgg aaaatttgtg gccctttttt atactattgt caccoccatg 300
ctcaaccctc tgatctatac cctgaggaac aaggatgtga agggggctct gtggaagggtg 360
ctagggagag gcacagac                                     378
```

<210> 1072

<211> 774

<212> DNA

<213> Mus musculus

<220>

<223> MOR232-8

<400> 1072

```
tggacttcgg gcctccgcac gcccatgtac ttcttctgc gccaaactggc gctggtagag 60
atctgcttct cactggacgt ggcaccccg cgtctggtga cctgctgca gcctggacgt 120
ggggtgtccc ccacgagctg tgccctgcag ctgctccttg tgctgtcctg tgtcacatct 180
gagtgtcttc ttctcatggt catggcctgg gatcgcttct tggccatctg caggccactg 240
cgctatggcg ccatcatgag ccgcagctg tgctacctgc tagctactac ctgctggctg 300
gcggaatcc ctgtggcact cgtcttcaac atctggctct ttaacttccc cttctgtggg 360
ccacgtggca tccgacactt cttttgtgac atagcacctc tgctgagcct ggtgtgtgca 420
gacaccagag ttttcgaggc caatgtgttt gtggccaccg tcctcgatcat catggttccc 480
ttctgtctca tagccacatc ctatgtgatg attctgggtg ctgtccttag gatgccatcg 540
gcctctgggc gccacaaggc cctgtccacc tgcgcctccc atctcatagt ggtaattctg 600
ttctatggca caacaggggt catccacttg cgcaccaagg ccagctactc tccagagagc 660
aagcaagtgg tgtcgctgtc atacaccatg gtgaccocct tgccttaacc cctcatctac 720
agcctgcgga acaaggaggt caaggctgcc tttgggcgtg tatgctgtgg acgc 774
```

<210> 1073

<211> 704

<212> DNA

<213> Mus musculus

<220>

<223> MOR23-3P

<400> 1073

```
ccccaaatgt tggccatatt ttggttaggg cttattcctg gcctttgatg cctgcctagc 60
ccagctcttc ttcatccata tcctgcaggg catggagtct ggcattctgt tggcaatggc 120
ttttgatcga tacattgcaa tctgtgatcc tctgaggcac acatccattc ttaaaccttc 180
aattcttggg cggatgatag tgggtgggtg aattcaagcg gtagtgcttg taggcctgtt 240
acctattcta ataaaaagac tgcaccattt tcaatccatt caaattgccc actcttactg 300
tgaacacatg actgtttgta agcttgcagc aaaccgtgtg cagggtcaata agatatgtgg 360
tctctttgtg ggggttgagc gttctgggat ttgacatgtt ttttatectc atatcatatg 420
ccctgatttt ctaagctgtt tttcacctta aacagaagga ggcaaggctc aaagccttta 480
acacctgcac agctcatatt tttgtttttt tagagttcta tattcttgcc tttttctcct 540
ttttaagcca ccgtcttggg catgttgttc cctccacca cattcttctg tcaaccatct 600
acctcctctt gcctcctgct ctcaacccta ttgtctatgg agtgaagagc atgggtcattt 660
aaaaacgggt ggcacagatc ttttttctag atcatgcaca tcag 704
```

<210> 1074

<211> 544  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR23-4P

<400> 1074  
atgctgagct ccctgaaaac caataacgtg acatatctga accctggaac tgtaatatgt 60  
attggaattc ctggactaga gcacgtgcag ttttggattg gatttccatt ctttacagt 120  
tgtctggtgg ctcttttggg aaatatcatt ttattaatca tcatccagc cgagcatagc 180  
ttacaccaac ccatgtacat cttcctggct gtgctggcag ctacagacat aggactttgt 240  
gcagccattg cccccaaaat gttggccata ttttggttca gggcttattc catggccttt 300  
gatgcctgcc tagcccaact cttcttcac ccatacccttc agggcatgga gtccggcatt 360  
ctgttggcaa tggcttttga tcgatacatt gcaatctgtg atcctctgag gcacacatct 420  
attcttacac cctcaattac ttggtcggat gatagtgggt gtggtaattc gagcggtagt 480  
gcttgtaggc ctgttaccta ttgtaataaa aagactgcac cattttcggg ccattcaaat 540  
tgcc 544

<210> 1075  
<211> 939  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR190-3P

<400> 1075  
atagagaagc acaacctcac aatggtgact gaattcatcc tgggtgggcat cactgaccac 60  
cctgagctgc aggccccatt gtttggactg ttctctctca tctatctgat ctctctgatt 120  
ggcaacttgg gcatgatcat ctttaccatg gtgaattcca ggctgaaaac acccatgtac 180  
ttcttttctaa gacacctcgc tactactgtc cttgggttatt caacagccgt gggacccaaa 240  
atgtttacaaa attttcttgt agatcaaaat acaatatcat ttcatctttg tgcgatccag 300  
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cagcccaaat ctaatcattc ctttgatact gataaagtgg cttcaatatt ttataccatg 840  
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<210> 1076  
<211> 941  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR187-4

<400> 1076  
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tttgtcatgt	gcttgtgggc	atcccgtacc	tctacagcac	cgtccaggct	ctactggtca	480
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tgattctgat	agccatatgt	cgaatgcatt	ctgcagaagg	caggagaaaa	gctttctcta	720
catgtgggtc	tcatttgaca	gtggttgtgg	ttttctatgg	tactctatct	tttatgtatt	780
tgcaacctaa	atctactgac	tccttagaga	atgataaaat	agcctcagtg	ttttatactt	840
tagtgatccc	catgcttaac	cccttgatat	acagtttaag	gaacaaagag	gttaaaaaatg	900
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 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR182-9

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aaccttggct	taatctttgt	catctggaag	gacctcatc	ttcacacacc	catgtacctt	180
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tattttctttt	gttcaagtgt	aactgcagaa	gccttcattc	tggtagctat	ggcctatgac	360
cgctatgtag	ccatatgcaa	acctctgctc	tatgtagtgg	tgatgtccaa	cagactctgt	420
attcagttca	taggtgtatc	ctatctaatt	ggacttctac	atgggtcttac	ttcatgtagg	480
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gagaaaactc	agagaa					916

<210> 1078  
 <211> 816  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR183-7P

<400> 1078						
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ggcaaccttg	gtctgatcac	tctcatctgg	aatgatcctc	accttcacat	tcttatgtac	180
ttttttcttg	ggagtttagc	atlttgggat	acttgggttat	catccacagt	gacaccaaag	240
atgctacaag	acattttttgc	caagaataaa	atgatattct	tctctgagtg	catgatacac	300
tttttttcat	ttggaatcag	tgcaaccacg	gaatgttttc	ttttggcatc	aatggcctat	360
gatcgctatg	tagccatatg	caaaccctta	ctctaccacg	tgatcatgac	aaatagactc	420
tgtgtacgtc	ttttaacatt	gtccttttga	ggtggattca	ttcatgcctt	aattcatgaa	480

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ggctttttat tcagattaat tttctgtagc tctcacataa tagaccactt ttattgtgat 540
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gttctgtttt ctatcctaaa gcagaaatct ctcaaaagca taaagaaagc cttttccacc 720
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cgccctgcat ctccacaagt aaatgatgaa gatatg 816

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<210> 1079  
 <211> 468  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR135-24

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<400> 1079
ctgatgcata ctctccttgc agcaagattg tctttttgtg agaacaatgt gatcctcaat 60
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ttgatgatat ttataatgag ttccctcctc attgttattc ctttttccct cattgtcatg 180
tcttatgcaa ggatcattgc ctccattctt aagggtccat ctattcaagg gatctacaag 240
gtcttctcca cctgtggttc ccctctgtct gtggtgacct tgttttatgg gacaattatt 300
ggctctact tatgtccatc aggttaataat tccacagtaa aggggactgt catggccatg 360
atgtacacag tgggtgactcc catgctgaac cccttcatct atagcctgag gaacagagac 420
atgaagaggg ccctaataag agttatttgc agtaagaaaa tctctctg 468

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<210> 1080  
 <211> 457  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR256-43P

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<400> 1080
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ggcaacaccg tgatcatcat tctgtctcaa ctggacctcc gcctgcacac acctatgtac 180
tacttctctc gccacctctc ctctcctggac ctctgtctaca ctgccagcac tgtgccccag 240
cttctgggtca acctctctgg acttgacagg accatcagct ttggaagggtg tgtggccccag 300
ctcttcataa tgctctcact gggaggcatt gagtgtgtgc ttttgggtggc aatggctata 360
gatecgtatg ctgctgtgtg tcgcccactc cactacacaa ccattatgca ccctgttact 420
ctgcagagca ttggttgtat tctcctgggt aggggggc 457

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<210> 1081  
 <211> 576  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR162-11P

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<400> 1081
atggctttta gaaatgcctc ttcagtgaag gaatttatct tgctgggatt gacacagcag 60
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gggaacctgg gcttgattgt tctgattgtg ttgaatcctc acctgcacac ccccatgtac 180
tactttctct tcaacctttc cttcatagat ctctgtctact cctctgtcat aacctctaga 240
atgttgggtg gttttgtgaa gcagaacatc atctctcatg ctgagtgcct gactcagctt 300

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```

cttgtacctg ttctattggc agtcattttcc ttcagtagta tcctttactc ttattttcaag 120
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tgtgtctctc acctttccat tgtctcctta ttttatagta caggccttgg agtgtatgtc 240
agttctgttg tgatccaaag ctctcactct gctgcaagag cctctgtgat gtatactgtg 300
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gtggaaagac tattagaagg aaaactg 387

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<210> 1085  
<211> 508  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR211-6P

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<400> 1085
atggccaaga ataatgctac caccataaat ggattcatac taatgggctt tagtgaccac 60
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ggaaacttag gcatggctat ttttatccat gtagatgtcc aactccacat cccaatgtac 180
ttctttctga gccatctctc tgtgttggtat gcctgotata cttcagtcac caccctcag 240
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ttcttcttct tcaactatct tgcagggtaca gagtgtttcc acaaacacct tctctctctc 360
attctgtgaa aatcagatca attttttttt tcttttatga cctccacact ctgctgaagc 420
tggcctgtag tgacacaatt aaatgggtga aattatcatt gttttctttg ggaattttgt 480
aattttggcc aattattgctg tcccgtc 508

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<210> 1086  
<211> 327  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR211-7P

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<400> 1086
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tcccacctca ctgctgtggc tcttttttgg ggacacttgg ctttatgtac atacggagtg 180
gttcaagaag ataaaggatg gtctgtcttc tacactgtgg tcattcccat gctgaaccca 240
ctaactctaca gcctaagaaa caaggatgtc aaggctgcat tcaagaaaat tactggtaaa 300
tgtcagtttt cccacagcac acaacac 327

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<210> 1087  
<211> 582  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR105-9

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<400> 1087
aggtatgttg ccatctgtac cccacttctg tatgcaatca ttataactcc aaagctctgc 60
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tggatatcta ctctgccctt ctgtggcccc aatcagattc accagctctt ctgtgactta 180
gaacctatgc tcctcttggc atgtacagac acatctatga ttctggttga agatgtcatc 240
catgctatct ccactctgag ctgtgtctct atcatcagcc tttcctatct aagaatcatt 300
accgtagtcc tgaagattcc atctggtgag agtcgtcaga aggcattctc cacatgcaca 360

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```

gccacatca ccatttttgt gctgtttttt ggcagtgtgg ctcttatgta cctgcgcttc 420
tctgtcacct tccaaccact actggagaag gtcattgcac taatgtttgc tgtccttgcc 480
ccatttttca atcctataat ctacagcctg aggaacaagg atatgaaaga tgccattaag 540
aaaatgtttg gttctcaaaa gatactcact gtctctggga gc          582

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<210> 1088  
 <211> 493  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR218-6P

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<400> 1088
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gggaacttca ttattatcac catcacaaca ctggatccac agctccagtc tccaatgtat 180
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atTTTTTct ttgcatcttt tgccctggga gagctgggca ctctcacagt gatgtcttat 360
gaccgctatg tggccatctg cctccactg cactatgagg tcataatgag tcccagaaag 420
tgcacttggg ctgtggcagc tgtgtggcta agtgggaggt atctcaggaa cattattcac 480
agcaagtaca ctc          493

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<210> 1089  
 <211> 318  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR253-13P

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<400> 1089
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ctcatcgtgg tttctgtgta ctactcatct ctgttctgtg cctatatcag tctgtcttc 180
agctacagcc cagaaagaag caaatttacc tcatTTTTT actcagtcct cagtccaacc 240
ctcaaccccc tcatctatac actgaggaac aaggatgtca agcttgccct gagaagactc 300
ttgcctctt tatcaaat          318

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<210> 1090  
 <211> 904  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR267-12P

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<400> 1090
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aatgccatta ttatgataat tatcgggtatt gagtgtcac gtcatactcc catgtacttc 180
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ttcgttttta tcactttggc catcaacaac tgctttctgc ttacagcgat gggatatgac 360
cgctatgtag ctatctgcaa ccccttgagg tctcagttta tcatgaacaa gaggggtgtg 420

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cctgttggtg	gtctccctct	tctacctgcc	cgccatttac	atgtacctgc	agccgccatc	720
cagttactca	caggagcagg	gcaagttcat	ctccctcttc	tattctataa	tcacccccac	780
ccttaaccct	ttcatctaca	ccttgaggaa	taaggacgtg	aagggagctc	tccgaagact	840
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<210> 1093  
 <211> 752  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR202-32P

<400> 1093		
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ttgggttttg	ctctttcctt gttattatct tctcctatgt attcattgca gtttccatcc 480	
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<210> 1094  
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 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR115-3P

<400> 1094		
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aacaccgatg	ccttcacatt gcatgagtc cacttccagg ttcccatgca cttcgtcttc 180	
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ggaaccactg	agatttggac tctgacttct atgacctgtg attactacat tgccacctcc 360	
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aa		902

<210> 1095  
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 <212> DNA

<213> Mus musculus

<220>

<223> MOR267-13

<400> 1095

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tgtgggtctt taggcactgg cctggttatg gcagttcttc atgtgccagc catgttccat 480
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cctgttgtct acagcctcag gaacaaagaa gtcaaagatg ctctatgcag agctgtgggc 900
agaaacactt ct 912
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<210> 1096

<211> 480

<212> DNA

<213> Mus musculus

<220>

<223> MOR188-7

<400> 1096

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gaaattgagg cgataatttt aatcttctca gcttttaatt tgctttcatc tcttcttata 180
gtaattgggt cctatctact tatccttatg gcaattctaa ggattaactc tgctgagggc 240
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atttccatct tttacacca gggtatccct atgttgaaatc ccttaacata cagcttgagg 420
aacaagatg taaaagatgt ccttaaaaaa ccaatggaaa aagtgcacaa tcttttctca 480
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<210> 1097

<211> 346

<212> DNA

<213> Mus musculus

<220>

<223> MOR256-46P

<400> 1097

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attttaatct tctcagcttt taatttgctt tcatctcttc ttatagtaat tgggtcctat 60
ctacttatcc ttatgacaat tctaaggatt aactctgcta agggtaaatt gaaggctttc 120
tctacctgtg ggtcccacct gacagtgtgc atcgtctttt atgggacttt gatatttatg 180
tatttgcaac ctacatccac tcactccatt aacactgtta aagtgacttc ccatctttta 240
caccaggtt atccctatgt tgaatccctt aatatacagc ttgaggaaca aagatgtgaa 300
agatgtcctt aaaaaaacia aggaaaaagt gtacaatctt gtctca 346
```

<210> 1098  
<211> 726  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR171-41P

<400> 1098  
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tcagagaagc cagaactcca gctgccactc ttctgtctct tcacaggaat ctatctgata 120  
accatggcag ggaacctggg catgatcaca ctgattgggc tcagttctca tctgcacaca 180  
cccatgtact atttcctcag cagtctgtcc ttcatlgact tctgtcagtc tacagttgtc 240  
attcctaata tgctcgtgag ctttctgaca gagatgaaca tcatttccta ctctgaatgc 300  
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atggcctatg accgatatgt tgctatttgc aaccccttgc ttacaatgt aaccatgtcc 420  
tatcagattt acagttctct gatttcaggg gtatatattt ttgctgtgat ctgttcatcc 480  
tttaacactg gcttcatgct taggactcag ttctgcaatt tagatgtgat taaccactat 540  
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ttgattctat tttttgctac actgaattca tttgtccag tgctgacat tattacttcc 660  
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tttagt 726

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<211> 588  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR211-8P

<400> 1099  
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cttatcatca tcattgctac tacagttgac cagacactga acacacccat gtacttcttc 180  
ctcaggaatc tatccatttt agatatatgc tacgtttctg tcaactgtgcc caatgcttgt 240  
atcaactctc tcaactgacca caggaatatt tctgtagggt gatgtgcagc acagatcttt 300  
tttgtctata ttgtgtcatg tgtagagatt ctatttctta ccatcatggc ccaggaccgc 360  
tatgtggcca ttgtgaaacc tctcctctat cctgtgatca tgaaccactg gttctgtgtt 420  
cagatgacac tggcttccct acttagctca ctgtctcttg caagtgtgca cactttcaaa 480  
actttccagc tgtccttctg tcaactctat gtggctccctc agttcttctg tgatattcct 540  
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<210> 1100  
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<212> DNA  
<213> Mus musculus

<220>  
<223> MOR189-5P

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ggcaacttgg gcatgatcat ccttaccatg gtggattcca ggctgcaaac acccatgtat 180  
ttcttttctca gacaccttgc tactactatt caacagctgt gggaccaaaa atgttaagaa 240

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at t t t t c t t g t   a g a a c a a a a t   a a a a a a t t a t   t t t a t g a c t g   t g c a t t c c a g   t c a t c t t t c t   300
t c a g t t c a t t   g t t a g t g a a t   t t t t t t a t t c   t g t a t g c a a t   a t t t t a t g a c   t g c t a t g t t g   360
c c a t c t g t a a   a c c a c t c a a c   t a t a a t g t c a   t t a t g t c a c a   a a g a c t a t g t   t g g a t a c c t g   420
g t g g c a g t c c   c a t a c c t t t a   c a g t a t a t t t   g t t g c t c t c a   t a g t c a c c a t   a a a t a t t t t t   480
c c t t c t t c c t   t g c t g t g g c c   c c a a c a t t a t   c a a t c a t t t c   t t t t a t a a t g   g t   532

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<210> 1101

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<212> DNA

<213> Mus musculus

<220>

<223> MOR245-19P

<400> 1101

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c c t c a c t t a c   a c t c t c c c a t   g t a c t t t c t t   t t g g c t a a c c   t c t c t t t c a t   t g a c t t g g g t   120
g t t t c t t c t g   t t t c t t c t c c   a a a g a t g c t t   t a t g a c t t a t   t c a g a a a g c a   c a a a g t c a t c   180
t c c t t t a c a g   g t t g t g t t a c   t c a a a t a t t t   t t c a t t c a t g   t c a t t g g t g g   t g t g g a g a t g   240
g t g c t g c t c a   t a g c c a t g g c   c t t t g a c a g a   t a t g t g g c c a   t a t g t a a g c c   t c t c c a t t a c   300
c t g a c c a t t a   t g a g c c c g a g   g a c a t g c a t c   t t g t t t t c a g   t g a c t g c c t g   g g t g g t t g g c   360
c t t a t g c a t t   c t c t g a t t c a   a c t g g c t t t t   g t a g t a a a c t   t a c c a t t t t g   t g g a c c a a a t   420
g t g t t g g a c a   g c t t c t a c t g   t g a c c t t c c t   c g g t t t a t c a   a a c t a g c c t g   c a t a g a c a c t   480
a a c c a g c t g g   a a t t c a t g g t   c a c a g t c a a c   a g t g g g t t c a   t c t c t g t g g g   t t c c t t c t t c   540
a t a c t g a t c a   t t t c a t a t a t   t g t t a t c a t a   a t c a g t g t g c   a a a a a c a t t c   t t c a g g t g g t   600
t c c t c t a a a g   c c c t g t c t a c   t c t t t c t g c t   c a c a t c a c t g   t a g t g   645

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<210> 1102

<211> 474

<212> DNA

<213> Mus musculus

<220>

<223> MOR0-14P

<400> 1102

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a t g c c a a g c a   g a t c t g t g c t   g g g a g a t g g a   a a c c a c a c c t   c t g t g g c c a t   g t t t g t c t c t   60
c t g g g g c t c t   t g g a c c a a g c   t g a g c t g c a g   c t c a t c c t t t   t t c c t g t c t t   c c t a g g g a c c   120
t a c c t c a t t a   c t c t g a t t t g   g a a c c t g g g c   c t t a t c a t c c   t c a t c a g a a t   g g a c t c t c a c   180
c t a c a a a c a c   c c a t g t a c t t   t t t t c t c a g t   t t c c t g t c a t   t t a t a g a t a t   a t g c t a t t c t   240
t c t t c t a t c a   g c c c a a g g a t   g c t t t c a g a c   t t c t t a a a a g   c a g a g a a a a c   a a t t t c c t t c   300
a t t g c t t g t g   c c a c t c a g t a   t t t t g t t a t g   g c c t g g a t g g   g t g c a t c t g a   g t g c t g c t t g   360
c t g g c t g c c a   t g g c c t a t g a   c a g g t a t g t g   g c c a t t g g t a   g c c c t c t g c a   g t a c t c a g t c   420
a t c a t g g c t c   c c a g t c t t t g   c t g g a g g a t g   g t t g c t g g t g   t c t a c c g g a g   t g g a   474

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<210> 1103

<211> 417

<212> DNA

<213> Mus musculus

<220>

<223> MOR0-15P

<400> 1103

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c t g g g g c t c t   t g g a c c a a g c   t g a g c t g c a g   c t c a t c c t t t   t t c c t g t c t t   t c t a g g g a c a   120
t a c c t c a t t a   c t c t g a t t t g   g a a c c t g g g c   c t t a t c a t c c   t c a t c a g a a t   g g a c t c t c a c   180

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ctacaaacac ccatgtactt ttttctcagt ttctgtcat ttatagatat atgctattct 240
tcttctatca gcccaaggat gctttcagac ttcttaaaaa cagagaaaac aatttccttc 300
attgcttggtg ccaactcagaa ttttggtttg gattggatgg gtacatctga gtgctgcttg 360
ctgactgcc a tggcctatga caggtatgtg gccattggta gccctctgca gtactca 417

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<210> 1104  
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 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR190-4P

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aacttgggca tgattattct tacaatgggt gactccaggc tgcaaacacc tatgtatttc 180
tttctcagac aactcgtac tactgacct gggtattcaa cagctgtggg acccaaatg 240
ttaacaaatt ttattgttga tcaaaataga atattcttta acctttgtac tacacagtta 300
gccttctttc ttctgttcat tgcttgtgaa ctttttattc tgtctgcaat gtccatgac 360
cgctatgtgg ctatctgtaa gcctctgttc tatatggta tcatgtcaaa aagactatgc 420
tgggtgcttg tagtaatgcc cttatgtcta ctgtacaatt gtggctgctt tta 473

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<210> 1105  
 <211> 582  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR106-10

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<400> 1105
ttcttgccag tcatggcatt tgatcgatac cttgccatct gtaggccact acattatcct 60
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ctctggttcc ctgtacccat catcatcatc tccagatgt cttctgtgtg gtccagaatt 180
atagaccact tctgtgtga cccaggccct cttttggccc ttgcctgttc cagagtccca 240
ttgatagagg ttttctgggt cattataatg tctatgtccc tgggtattcc tttcctcttc 300
atcatgggaa cttacatatt ggtcctaaga gctgtgttta gacttccttc aagagaagga 360
caaaaaaagg ctttctccac ttgcgggtct catctcacag tagtttcaact cttttattgc 420
tcagtgatga taatgtatct gagcccaaca tctgagcatg aggccggaat gcagaagctt 480
gtaactctat tttattctgt gggtaacca ctgcttaatc ctatgatata cagtctgagg 540
aacaagata tgaaaaatgc cctacagaag attttgagaa ca 582

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<210> 1106  
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 <212> DNA  
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<220>  
 <223> MOR182-10P

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<400> 1106
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tttctacatt cagcaattca tgtgggcttg ttagtgagat taaatttctg caagtccaac 180
atcatacact atttctactg tgaaatcttg cagttattca aaatttctg cattaatcct 240
acaatgaacg tccttctggt tttaatattt tcaactttga tacaaggttt gacttttatg 300

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acttttattg tctcctactc ctctgtcatt tttcccatcc tgaaaacaaa gtctgagagg 360
ggcagacgca aagcctttctc cacctgcagt gtcacactgc tctccgtgtc tctgttctat 420
ggcacacttt tctcatgta tgtgcatcct ggggtctggat caggggaaga taagggcaga 480
atgtattctt tattttacac aataataatt ctattttctaa atcctttttt tattacg 537

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<210> 1107  
 <211> 793  
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 <213> Mus musculus

<220>  
 <223> MOR259-7P

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<400> 1107
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tcctttgctg gctgctgcct gcagatgtat gtgttcgggtg cctgggtat gactgagtgc 180
accttctttg ttgtgatggc ttatcacccg tatgtggcca ttgctagcc attgccctat 240
actgtcatcc tcaactgggg cctgtgcatt cggttggcag cagggctctg gatctgtggt 300
ttcttttcat ctttattaca tactttcttc accatgagtc tgccatattg tgggcccac 360
agggtcaatc actacttgtg tgaaggctct tcagtgcgta gcttgggttg catggatact 420
cactttgtag agatgggtga cttggctctg agtgtctttt tggttgttat tccaatttcc 480
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tttctgccac ttacaactac atgaggccca actccagcta ctctcctgaa tgagaaagca 660
gatctcactc ttttacaatg cttttacacc cttgctcaac cctgtggcct acagtctgag 720
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accaggatgg tga

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<210> 1108  
 <211> 676  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR203-7P

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<400> 1108
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tttttcttac aacatctagc ctttgttgat ctctgctata cctcagctat tactcccaag 240
atgttaaaaa acttcacaga gacaaaagct tccatatctt tcataggatg tatgttacag 300
ctactagcct atgggtacttt tgcaaccatc gactgtttca tctagctgc tatggctgtg 360
gaccgctacg tggccatctg taaccattg cgctatccca tagtcatgtc ccagagactg 420
tgcattctgc tgctgggtggg ttcttatacc atgggcttcc taaatgcttc tgtaaacaca 480
agttttacat tctcactgaa attctgcaaa tccaatgcc ttaatcactt tttctgcgat 540
gagccacca ttcttgccct atcatgtctc agtattgact tcagtatcat gttactgaca 600
gtttttgtgg ggttcaacct agttgagtac tgtgctgggt gtcactttt cttacatata 660
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<210> 1109  
 <211> 465  
 <212> DNA  
 <213> Mus musculus

<220>



<223> MOR111-11

<400> 1109

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ttttactttg catttattac tctgctgttc aactggctc tagtgatctt gtcatacatc 180
tgcacatca acaccattct gaggttccca tctgccagtc agaggaaaaa ggctttctcc 240
acctgttctc ctcacatgat tgtcatctcc atctcttatg gcagctgcat tttcatgtat 300
gtcaaacctt ctgcaaatga aagagcatca ctgaccaaag ggggtggctct tctcaatact 360
tcaattgctc ccatgctgaa cccttttatt tacacctga gaaatcaaca agtaaaacaa 420
gccttcaagg atttgattaa taaactaatg tttaatagaa acaaa 465
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<210> 1110

<211> 658

<212> DNA

<213> Mus musculus

<220>

<223> MOR0-16P

<400> 1110

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ctacttcttc agcaatatat actccattaa tctctgccat cccatgggtg ttaacccaaa 240
aatgtttggg aaatttgtga tagaaaacaa cccatctcc caccctcaat acatgactca 300
gctctatttc atcctcagtt ttgtgactgc aaaatgccac ttgttagcag caatttcata 360
tgaacctcat gttgctatat ataatccttt gggtttacaat gtgaccatat tctctcagat 420
ttacagttcc ttgatttcag aagtacatat tactgggtgta gtttgtatat caggtcacac 480
aggcatcaag atctctgtat agcttggtaa cataggcgtg atcaaatacc atttctatgt 540
tcttacctga caaaactccc ccacttatgt taaagttctt gtttaatgat tttactatt 600
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<210> 1111

<211> 373

<212> DNA

<213> Mus musculus

<220>

<223> MOR185-9P

<400> 1111

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ggtaacctag gactgattat gctaatacaa gtcagccctc agcttcacac acccatgtac 180
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cacaattata aactttcttc gagaaatcaa aagtataacc ttatatgcat gtgccaactca 300
ggtttgcctg ttcacacat ttgctgtttg tgaaatgtac ttgctgtcag taatggctta 360
tgacagatat gtg 373
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<211> 952

<212> DNA

<213> Mus musculus

<220>

<223> MOR12-4

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ccaggactgg agacagagca catctggata tccatccct tctgcctgat gtacttcac 120  
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ttgtctatgg tacatcgctt tgcacatcat gtatctctc tgcctcaaac catgatggcc 840  
aatgcttata tcttcttccc cccaagtcac caacccatt gtctacagca tcaaaaccaa 900  
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<210> 1113  
<211> 966  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR18-3

<400> 1113  
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cccttatgct ttatgtatgc agtggccaca ctgggcaacc tggccatcat ctccatcatt 180  
cgtgtggaga ggcgcttgca tgagcccatg tacctcttcc tcgccatgct ttctaccatt 240  
gacttgggtc tctcttctgt taccatgccc aaaatggcca gcttgttctt aactggcatt 300  
caggagatcg agttcaacat ttgcttgacc caaatgttcc ttattcatgc cctatctgcc 360  
atggagtctg ctgtcctgct ggccatggct tttgaccgct ttgtggccat ttgctaccgc 420  
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gctaggggat ttgtattctt ctttccactg cttttccttt tgaagcgtct gtcatactgc 540  
caaacacata ctgtcacaca ctcttctgt ctccatcaag acattatgaa gctgtcctgt 600  
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gactccctct tcattggctt ttctatata ctcatcctga gggctgtgtt ggagctttca 720  
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ttggtccatg tgattatggc taatatctat ctctgctac cacctgtagt caatccatt 900  
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<210> 1114  
<211> 1041  
<212> DNA  
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<220>  
<223> MOR14-9

<400> 1114  
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tccattcctg	tttgtggtct	ctacaccatt	gcactcttag	gaaacagtat	tattttgttt	180
gtcattatca	ttgaacggag	tctccacaag	cccatgtact	atcttctctc	catgctgtct	240
gttggttgatc	taggtctgac	catcacaacc	cttcccacag	tccttggtgt	cctttgggtt	300
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tcatttcctgg	agtcttcagt	attggtggcc	atggcttttg	accgctactt	ggccatctgc	420
agccctctga	agtatgctac	tttcttgaca	gacatgatga	gctttgtgat	cggactgac	480
atctgtataa	gacaggtggt	tttcatgttt	ccctcagtta	tggtctgtaa	gagtgtgtcc	540
ttccaaggag	gccaagagct	ttcccatcca	ttttgcttcc	atccagatat	aatcaaattc	600
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aatcctatca	tttacagctt	gaagaccaag	gttattcgcc	aagccatatt	ccagctgttc	960
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<210> 1115  
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<220>  
 <223> MOR14-10

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<223> MOR283-11

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<223> MOR103-16

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<212> DNA

<213> Mus musculus

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<213> Mus musculus

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<223> MOR228-2

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<210> 1141

<211> 927

<212> DNA

<213> Mus musculus

<220>

<223> MOR228-3

<400> 1141

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<210> 1142

<211> 927

<212> DNA

<213> Mus musculus

<220>

<223> MOR232-9

<400> 1142

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ctcctcattg tggctactat catcaacagc caggctctga attcccccac gtatttcttc 180
ctgagccacc tctccttgat agatacaatt tacacttctt cttcagctcc aaagctgatt 240
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gcggactccc	ttcaagagaa	caaagtcac	tcctttaatg	gatgcatggc	tcaagtctat	300
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tatgtggcca	tctgcaaacc	tctgcaactat	atgaccatca	tgagccacaa	gctatgcatt	420
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ccattgttgg	aacttgtttg	catggacaca	cacatccttg	gtctctttgt	ggctgccaac	600
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<210> 1143  
 <211> 916  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR251-5

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ctggtcaact	tgccattgt ggacatctc tgcacctcca ccatcctacc caaactactg 240
gacagcatga	tgacaggaag gaccatctct tacgggggct gcatggcca gctcttcttc 300
ttcacatggt	cactgggagc agagcttctg ctcttctcag ctatggcta tgaccgcttt 360
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agcatcctga	agatcgggtc agctgagggc aagcgacgag ccttctccac ctgctctgca 720
caccttatcg	tggtcaccat gtactactcc actgtcatct acacctacat tcgcccctca 780
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acttctctcc	tgctgc 916

<210> 1144  
 <211> 942  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR266-10

<400> 1144	
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ggaaacctca	ccattgggct cacagtctgg caggatcact ccctccatac ccgatgtac 180
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ctctgtgggc	agatggcttt aggttctctg gggctgggtt tccttttctc actgcctttg 480



accatttctga	tctgccacct	cccatttctgt	ggccacaatg	aaatctacca	cttcttctgc	540
gacatgcctg	cagtcatgcg	cctggcctgt	acagataccc	atatacacca	ggcagctctc	600
tttgccatca	gcgtggetgc	agtagccatt	ccttttctcc	ttatctgtct	ctcctatggt	660
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<210> 1145  
 <211> 939  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR204-32

<400> 1145	
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ggtaacttga	acataattgt gctaatacaga accagccctc agcttcacac ccccatgtac 180
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tattcaccac	tattgaagct ttcttgttct catgactttt cttttgaagt cattccagca 600
atctcttcgg	gatccatcat tgtggctact gtgtttatca ttgctctgtc ttatgtctac 660
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tgcacttccc	acctcactgc agtcaactctg ttctttggga ccatcacatt catttatgtg 780
atgccccagt	ccagctactc cacagaccag aacaaagtgg tgtctgtgtt ttacacagtg 840
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atgaaaaaac	tgattgctaa aacacattgg tggctctga 939

<210> 1146  
 <211> 929  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR225-11

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atgtttctcat	catgggtttca atcacatgca ctacctcgt tgagcaacct atgtatttct 180
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tgtataccat	aagggcataat tctgcagaaa gccggagcaa agctctatct acttgagtt 720
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ccaccacatt	tccagaagac	aaagtatttg	ctctttttcta	taccatcata	gcacccatgt	840
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<210> 1147  
 <211> 970  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR198-4

<400> 1147						
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catgggcttg	atggctctga	ttagactgga	ttccgcctt	cacaagccta	tgtacttctt	180
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ctatgtggcc	atatgcaacc	ctctgcgtta	cagtgtgaaa	atgtccaggc	gagtctgcat	420
ctgcttggcc	atgtgtcctt	atatctatgg	cttctcagat	ggactattcc	aagccatctt	480
gaccttcagt	atgaccttct	gtaaatccaa	tgtcatcaac	cacttctact	gtgctgaccc	540
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aacaatactc	aggcaaaaacg	tcatcaggac	agcattgatg	cgtccacctt	ccaacaaact	960
gcaacaataa						970

<210> 1148  
 <211> 936  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR143-1

<400> 1148						
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<210> 1149  
<211> 916  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR248-15

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aggcaacctc tttgtttgtga tattgatcat cattgatcat catctccatt ctcccatgta 180  
ctttctgtta gctaattctat cttttattga cttctgcctt tcctcagtta ccacccccaa 240  
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gatoctctgt gtgtacttct ttggaggaag tgagatggtg cttcttgtaa caatggccta 360  
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tgctgacagt ggtgtttttg caacaacttg ttcatcctc ttactgatat cttataactaa 660  
cattctatta actgttcaac ttcaactctaa agatggttca tcaaaggcat tatctacatg 720  
cacatcccat atcatagtgg ttttgctgtt ctttgggcca gtcattttca tctatctgtg 780  
tccagttagc atcacctggg ttgacaactt tcttgccgta ttttactcag tcatcacacc 840  
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gctgataaac cacttg 916

<210> 1150  
<211> 831  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR248-16

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attgacttct gcctttcttc agtaaccacc cccaaactga ccatagatct cctaaaagaa 180  
aataaaacca tttcctttgt aggttatatg aggcagatcg tctgtgtgca cttctttgca 240  
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ctgttctttg ggcccatcat ttttatctat ctgtggccag tcagcatcac ctgggttgac 720  
aagtttcttg ctgtatttta ctcagtcatc acacctctcc ttaatccagc catctacaca 780  
ctgagaaata aagatattaa aaatgccata aagaaactca taagtcacaa g 831

<210> 1151  
<211> 885  
<212> DNA  
<213> Mus musculus

<220>

<221> variation  
<222> (44)...(63)  
<223> Any nucleotide A, C, G or T

<220>  
<223> MOR248-17P

<400> 1151  
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gtgatatcat ggattgttgg atttgtgcat gccattagtc agttgctctt gattttggat 480  
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aaattagcct gcatgaatac tgatactctg ggaatcctaa taaatgctga cagtggcatt 600  
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caacatcgct ctaaagatgg ctcatataaa gcaactatcca catgcacatc ccatatcata 720  
gtggttctgc tgttcttttg gcccatcatt tttatctatc tgtggccagt aaacatcact 780  
tgggtggaca agtttcttgc tgtgttttat acagtcacac cacctctcct gaatccagca 840  
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<210> 1152  
<211> 939  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR193-1

<400> 1152  
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ttaatgggaa atatgggcat gatcatactc acaatagtgg accctcgact gcaaacaccc 180  
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ttacagctag cttgctttct tctgttcatt acctgtgagc tttttatttt gtctgccatg 360  
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aagaaatggt ggctactaat agtaattgct tatctgtatg gtttgtttct gtctcttata 480  
attactttta agatgttcag gctttcattc tgcagctaca atataatcaa tcattttttc 540  
tgtgactgta tccctttgat accattgctc tgttcaaaca ctcatgaaat tcagttgata 600  
atttttagtat ttgccatttt tgattcgatt tgttctcttc tggttgttct tgtgtcttac 660  
ctcctcatcc tcataacatc tctgaggatg aactctactg agggcaggca caaggctttt 720  
gcaaattgtg gatcacacat aactgtctgc accgtcttct atgggacttt gatattctatg 780  
tatttgcagc ctaattatag tcaactcttt gacactgaca agttggcatc catcttttat 840  
accatgatta tccccatgtt gaatcccttg atctacagct tgaggaacaa ggatgtaaag 900  
aatgctggac agaggatatg gaagaagttg tgcaagatt 939

<210> 1153  
<211> 948  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR284-2

<400> 1153

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<212> DNA

<213> Mus musculus

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<223> MOR256-47

<400> 1154

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<211> 942

<212> DNA

<213> Mus musculus

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<223> MOR130-1

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 <213> Mus musculus

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 <223> MOR259-8

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 <212> DNA  
 <213> Mus musculus

<220>  
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<211> 939

<212> DNA

<213> Mus musculus

<220>

<223> MOR153-3

<400> 1162

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<212> DNA

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<212> DNA

<213> Mus musculus

<220>

<223> MOR259-9

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<212> DNA

<213> Mus musculus

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<223> MOR137-2

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<212> DNA

<213> Mus musculus

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<223> MOR42-3

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<213> Mus musculus

<220>

<223> MOR224-9

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<213> Mus musculus

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<223> MOR13-6

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942

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<212> DNA

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<223> MOR34-10P

<400> 1173

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<212> DNA

<213> Mus musculus

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<223> MOR249-2

<400> 1174

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 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR233-18

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tggaagaaat	tggtaatggt ttcagatgaa aga 933

<210> 1181  
 <211> 914  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR233-19

<221> variation  
 <222> (36)...(73)  
 <223> Any nucleotide A, C, G or T

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 <213> Mus musculus

<220>  
 <223> MOR133-5P

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<210> 1183  
 <211> 924  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR183-8

<400> 1183						
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ggggcccatc	tcctatccgt	gtctttatac	tatgggcccc	ttctcttcat	gtatgtgcac	780
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<210> 1184  
 <211> 927  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR183-9

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ttttttgcct	tcgcatttgg	cgggaccaca	gaatgctttc	ttttgggtac	aatggcctat	360
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<210> 1185  
 <211> 978  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR264-19

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<210> 1186  
 <211> 855  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR204-33P

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 <211> 939  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR110-9

<400> 1187						
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cgcgttctca	cgcctggcca	ggaagaacac	aacaaaccag	aatcttctgc	ggcaaagctt	900

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939

<210> 1188

<211> 972

<212> DNA

<213> Mus musculus

<220>

<223> MOR246-2

<400> 1188

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<210> 1189

<211> 927

<212> DNA

<213> Mus musculus

<220>

<223> MOR115-4

<400> 1189

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<211> 963  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR246-3

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ctg 963

<210> 1191  
<211> 963  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR246-4

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<223> MOR200-1

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<212> DNA

<213> Mus musculus

<220>

<223> MOR40-13

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<212> DNA  
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<220>  
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<223> Any nucleotide A, C, G or T

<220>  
<223> MOR142-1

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<210> 1205

<211> 954  
<212> DNA  
<213> Mus musculus

<220>  
<221> variation  
<222> (30)...(49)  
<223> Any nucleotide A, C, G or T

<220>  
<223> MOR171-45

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<210> 1206  
<211> 858  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR170-12

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<210> 1207  
<211> 993

<212> DNA  
<213> Mus musculus

<220>  
<223> MOR204-36

<400> 1207  
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<210> 1208  
<211> 952  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR32-12

<400> 1208  
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<210> 1209  
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<212> DNA  
<213> Mus musculus

<220>

<223> MOR268-5

<400> 1209

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<211> 927

<212> DNA

<213> Mus musculus

<220>

<223> MOR268-6

<400> 1210

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<210> 1211

<211> 966

<212> DNA

<213> Mus musculus

<220>

<223> MOR105-10

<400> 1211

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 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR258-6

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<210> 1213  
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 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR202-34

<400> 1213						
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 <212> DNA  
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<220>  
 <223> MOR210-5

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<210> 1217  
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 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR106-11

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<210> 1218

<211> 942

<212> DNA

<213> Mus musculus

<220>

<223> MOR106-12

<400> 1218

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<211> 945

<212> DNA

<213> Mus musculus

<220>

<223> MOR243-1

<400> 1219

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<220>

<223> MOR261-12

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<223> MOR174-16

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<213> Mus musculus

<220>

<223> MOR177-14

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 <223> MOR128-2

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<220>

<223> MOR219-4

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<220>

<223> MOR283-12P

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<212> DNA

<213> Mus musculus

<220>

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<212> DNA

<213> Mus musculus

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<212> DNA

<213> Mus musculus

<220>

<223> MOR110-10

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<212> DNA

<213> Mus musculus

<220>

<223> MOR174-19

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<212> DNA

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<220>  
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<223> MOR208-5

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<213> Mus musculus

<220>

<223> MOR256-49

<400> 1260

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<212> DNA

<213> Mus musculus

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<223> MOR280-1

<400> 1261

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<212> DNA

<213> Mus musculus

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<223> MOR256-50

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<212> DNA

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<223> MOR217-1

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<220>  
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<220>  
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<220>  
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 <223> MOR261-13

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 <223> MOR171-46

<400> 1269						
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<220>  
<223> MOR223-9

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<210> 1271  
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<212> DNA  
<213> Mus musculus

<220>  
<223> MOR256-51

<400> 1271  
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<212> DNA  
<213> Mus musculus

<220>

<223> MOR162-12

<400> 1272

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<211> 970

<212> DNA

<213> Mus musculus

<220>

<223> MOR106-13P

<400> 1273

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<210> 1274

<211> 967

<212> DNA

<213> Mus musculus

<220>

<223> MOR128-3

<400> 1274

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<210> 1275  
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 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR124-1

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gcactaa						967

<210> 1276  
 <211> 945  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR267-16

<400> 1276						
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<210> 1277  
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 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR182-11P

<400> 1277						
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gcatttgtaa	tttttatttt	tgtttcttcc	atacaaatca	gtacctctgt	gactattata	420
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<210> 1278  
 <211> 845  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> variation  
 <222> (460)...(621)  
 <223> Any nucleotide A, C, G or T

<220>  
 <223> MOR231-19P

<400> 1278						
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cttttcttgg tgatggcctg ggtgggaggt tttgtacatn nnnnnnnnnn nnnnnnnnnn 480
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<210> 1279  
 <211> 793  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> variation  
 <222> (323)...(379)  
 <223> Any nucleotide A, C, G or T

<220>  
 <223> MOR15-2P

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caagtaagtt gtacaatctc atgcaacttt gattgaagta gtaatgtaag aagaaggtaa 780
ggatcttccc aat 793

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<210> 1280  
 <211> 292  
 <212> DNA  
 <213> Mus musculus

<220>  
 <223> MOR256-52P

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<400> 1280
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<210> 1281  
 <211> 489  
 <212> DNA  
 <213> Mus musculus

<220>

<223> MOR202-38

<400> 1281

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gcatctgtgt tttatacaat ggtcattcct atgctgaacc ctgtggtcta cagcctgagg 420
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<210> 1282

<211> 376

<212> DNA

<213> Mus musculus

<220>

<223> MOR203-8P

<400> 1282

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<210> 1283

<211> 793

<212> DNA

<213> Mus musculus

<220>

<223> MOR220-4P

<400> 1283

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<210> 1284



<211> 589  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR136-18P

<400> 1284  
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<210> 1285  
<211> 568  
<212> DNA  
<213> Mus musculus

<220>  
<223> MOR255-7P

<400> 1285  
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<220>  
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<220>  
 <223> MOR286-3P

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<223> MOR150-3

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<212> DNA  
<213> Mus musculus

<220>

<223> MOR256-54P

<400> 1293

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<212> DNA

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<223> MOR15-3

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 <223> MOR184-11P

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Tyr Ile Ser Val Leu Leu Gly Asn Gly Thr Leu Leu Tyr Leu Ile Lys
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Asp Asp His Asn Leu His Glu Pro Met Tyr Tyr Phe Leu Ala Met Leu
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Ala	Leu	Ile	Ile	Val	Phe	Ser	Tyr	Val	Leu	Ile	Leu	Lys	Thr	Val	Met
	210					215					220				
Gly	Ile	Ala	Ser	Gly	Glu	Glu	Arg	Ala	Lys	Ala	Leu	Asn	Thr	Cys	Val
225					230					235					240
Ser	His	Ile	Ser	Cys	Val	Leu	Val	Phe	Tyr	Ile	Thr	Val	Ile	Gly	Leu
				245					250					255	
Thr	Phe	Ile	His	Arg	Phe	Gly	Lys	Asn	Ala	Pro	His	Val	Val	His	Ile
			260					265					270		
Thr	Met	Ser	Tyr	Val	Tyr	Phe	Leu	Phe	Pro	Pro	Phe	Met	Asn	Pro	Ile
			275				280					285			
Ile	Tyr	Ser	Ile	Lys	Thr	Lys	Gln	Ile	Gln	Arg	Ser	Val	Leu	His	Leu
	290					295					300				
Leu	Ser	Val													
305															

<210> 1298  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1298

Met	Pro	Ser	Met	Trp	Leu	Asn	Ile	Ser	Ser	Ser	Pro	Phe	Leu	Leu	Thr
1				5					10					15	
Gly	Phe	Pro	Gly	Leu	Glu	Lys	Ala	His	His	Leu	Ile	Ser	Leu	Pro	Leu
			20					25					30		
Leu	Met	Ala	Tyr	Ile	Ser	Ile	Leu	Leu	Gly	Asn	Gly	Thr	Leu	Leu	Phe
			35				40					45			
Leu	Ile	Lys	Asp	Asp	His	Asn	Leu	His	Glu	Pro	Met	Tyr	Tyr	Phe	Leu
			50			55					60				
Gly	Met	Leu	Ala	Ala	Thr	Asp	Leu	Gly	Val	Thr	Leu	Thr	Thr	Met	Pro
65					70				75						80
Thr	Val	Leu	Ser	Val	Leu	Trp	Leu	Asn	His	Arg	Glu	Ile	Gly	His	Gly
				85					90					95	
Ala	Cys	Phe	Ser	Gln	Ala	Tyr	Phe	Ile	His	Thr	Leu	Ser	Ile	Val	Glu
			100					105					110		
Ser	Gly	Val	Leu	Leu	Ala	Met	Ala	Tyr	Asp	Arg	Phe	Ile	Ala	Ile	Arg
			115				120					125			
Asn	Pro	Leu	Arg	Tyr	Thr	Thr	Ile	Leu	Thr	Asp	Thr	Lys	Val	Ile	Lys

130		135		140	
Ile Gly Ile Gly Leu Val Met Arg Ala Gly Leu Ser Ile Met Pro Ile					
145		150		155	160
Ile Ile Arg Leu His Trp Phe Pro Tyr Cys Arg Ser His Val Leu Ser					
	165		170		175
His Ala Phe Cys Leu His Gln Asp Val Ile Lys Leu Ala Cys Ala Asp					
	180		185		190
Ile Thr Phe Asn Arg Leu Tyr Pro Val Val Val Val Phe Ala Met Val					
	195		200		205
Leu Leu Asp Phe Leu Ile Ile Phe Phe Ser Tyr Val Leu Ile Leu Lys					
	210		215		220
Thr Val Met Gly Ile Ala Ser Thr Asp Glu Arg Ala Lys Ala Leu Asn					
225		230		235	240
Thr Cys Val Ser His Ile Cys Cys Ile Leu Val Phe Tyr Val Thr Val					
	245		250		255
Val Gly Leu Thr Phe Ile His Arg Phe Gly Lys Asn Val Pro His Val					
	260		265		270
Val His Ile Thr Met Ser Tyr Ile Tyr Phe Leu Phe Pro Pro Phe Met					
	275		280		285
Asn Pro Val Ile Tyr Ser Ile Lys Thr Lys Gln Ile Gln Ser Gly Leu					
	290		295		300
Leu Arg Leu Phe Ser Leu Pro Cys Ser Lys Thr					
305		310		315	

<210> 1299  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1299

Met Trp Pro Asn Ser Ser Asp Ala Pro Phe Leu Leu Thr Gly Phe Leu	
1	5
Gly Leu Glu Met Ile His His Trp Ile Ser Ile Pro Phe Phe Val Ile	
	20
Tyr Phe Ser Ile Ile Val Gly Asn Gly Thr Leu Leu Phe Ile Ile Trp	
	35
Ser Asp His Ser Leu His Glu Pro Met Tyr Tyr Phe Leu Ala Val Leu	
	50
Ala Ser Met Asp Leu Gly Met Thr Leu Thr Thr Met Pro Thr Val Leu	
65	70
Gly Val Leu Val Leu Asn Gln Arg Glu Ile Val His Gly Ala Cys Phe	
	85
Ile Gln Ser Tyr Phe Ile His Ser Leu Ala Ile Val Glu Ser Gly Val	
	100
Leu Leu Ala Met Ser Tyr Asp Arg Phe Val Ala Ile Cys Thr Pro Leu	
	115
His Tyr Asn Ser Ile Leu Thr Asn Ser Arg Val Met Lys Met Ala Leu	
	130
Gly Ala Leu Leu Arg Gly Phe Val Ser Ile Val Pro Pro Ile Met Pro	
145	150
Leu Phe Trp Phe Pro Tyr Cys His Ser His Val Leu Ser His Ala Phe	
	165
Cys Leu His Gln Asp Val Met Lys Leu Ala Cys Ala Asp Ile Thr Phe	
	180
Asn Leu Ile Tyr Pro Val Val Leu Val Ala Leu Thr Phe Phe Leu Asp	
	195
	200
	205



Ala	Leu	Ile	Ile	Ile	Phe	Ser	Tyr	Val	Leu	Ile	Leu	Lys	Lys	Val	Met
210						215					220				
Gly	Ile	Ala	Ser	Gly	Glu	Glu	Arg	Lys	Lys	Ser	Leu	Asn	Thr	Cys	Val
225					230					235					240
Ser	His	Ile	Ser	Cys	Val	Leu	Val	Phe	Tyr	Ile	Thr	Val	Ile	Gly	Leu
				245					250					255	
Thr	Phe	Ile	His	Arg	Phe	Gly	Lys	Asn	Ala	Pro	His	Val	Val	His	Ile
			260					265					270		
Thr	Met	Ser	Tyr	Val	Tyr	Phe	Leu	Phe	Pro	Pro	Phe	Met	Asn	Pro	Ile
	275						280					285			
Ile	Tyr	Ser	Ile	Lys	Thr	Lys	Gln	Ile	Gln	Arg	Ser	Ile	Leu	Arg	Leu
290						295					300				
Leu	Ser	Lys	His	Ser	Arg	Thr									
305						310									

<210> 1300  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1300

Met	Pro	Val	Ile	Trp	Leu	Asn	Thr	Ser	Thr	Tyr	Pro	Phe	Leu	Leu	Thr
1				5					10					15	
Gly	Phe	Pro	Gly	Leu	Glu	Lys	Ser	His	Leu	Ile	Ser	Leu	Pro	Leu	
			20					25				30			
Leu	Met	Ala	Tyr	Ile	Phe	Ile	Leu	Leu	Gly	Asn	Gly	Thr	Leu	Leu	Phe
		35					40					45			
Leu	Ile	Lys	Asp	Asp	His	Asn	Leu	His	Glu	Pro	Met	Tyr	Tyr	Phe	Leu
	50					55					60				
Gly	Met	Leu	Ala	Ala	Thr	Asp	Leu	Gly	Val	Thr	Leu	Thr	Thr	Met	Pro
65					70					75					80
Thr	Val	Leu	Gly	Val	Leu	Trp	Leu	Asn	His	Arg	Glu	Ile	Gly	His	Gly
				85					90					95	
Ala	Cys	Phe	Ser	Gln	Ala	Tyr	Phe	Ile	His	Ser	Phe	Ser	Ile	Val	Glu
			100					105					110		
Ser	Gly	Val	Leu	Leu	Ala	Met	Ala	Tyr	Asp	Arg	Phe	Ile	Ala	Ile	Arg
		115					120					125			
Asn	Pro	Leu	Arg	Tyr	Thr	Thr	Ile	Leu	Thr	Asp	Ile	Lys	Val	Ile	Lys
	130					135					140				
Ile	Gly	Ile	Gly	Val	Val	Met	Arg	Ala	Gly	Leu	Ser	Ile	Met	Pro	Ile
145					150					155					160
Ile	Ile	Arg	Leu	His	Trp	Phe	Pro	Tyr	Cys	Arg	Ser	His	Val	Leu	Ser
				165					170					175	
His	Ala	Phe	Cys	Leu	His	Gln	Asp	Val	Ile	Lys	Leu	Ala	Cys	Ala	Asp
			180					185					190		
Ile	Thr	Phe	Asn	Arg	Leu	Tyr	Pro	Ile	Val	Val	Val	Phe	Cys	Met	Gly
		195					200					205			
Leu	Leu	Asp	Phe	Leu	Ile	Ile	Cys	Phe	Ser	Tyr	Ile	Leu	Ile	Leu	Lys
	210					215					220				
Thr	Val	Met	Gly	Ile	Ala	Ser	Thr	Asp	Glu	Arg	Ala	Lys	Ala	Leu	Asn
225					230					235					240
Thr	Cys	Val	Ser	His	Ile	Cys	Cys	Ile	Leu	Val	Phe	Tyr	Val	Thr	Val
				245					250					255	
Val	Gly	Leu	Thr	Phe	Ile	His	Arg	Phe	Gly	Lys	Asn	Ile	Pro	His	Ile
			260					265					270		
Val	His	Ile	Thr	Met	Ser	Tyr	Ile	Cys	Phe	Leu	Phe	Pro	Pro	Phe	Met

	275		280		285										
Asn	Pro	Val	Ile	Phe	Ser	Ile	Lys	Thr	Lys	Gln	Ile	Gln	Ser	Gly	Leu
	290					295					300				
Leu	Arg	Leu	Phe	Ser	Leu	Pro	Tyr	Ser	Arg	Ile	Arg	Leu			
305					310					315					

<210> 1301  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1301

Met	Gly	Gly	Glu	Ala	His	Asn	Ser	Ser	Gly	Leu	Pro	Pro	Phe	Ile	Leu
1				5					10					15	
Thr	Gly	Leu	Pro	Gly	Met	Glu	Thr	Ser	Gln	His	Trp	Leu	Phe	Leu	Leu
			20					25					30		
Leu	Gly	Val	Leu	Tyr	Ser	Val	Ser	Ile	Val	Gly	Asn	Ala	Leu	Ile	Leu
		35					40					45			
Phe	Ile	Ile	Lys	Glu	Glu	Glu	Ser	Leu	His	Gln	Pro	Met	Tyr	Tyr	Phe
	50					55					60				
Leu	Ser	Leu	Leu	Ser	Gly	Asn	Asp	Leu	Gly	Val	Ser	Phe	Ser	Thr	Leu
65					70					75					80
Pro	Thr	Val	Leu	Gly	Val	Phe	Cys	Phe	His	Leu	Arg	Glu	Ile	Ser	Phe
			85						90					95	
Asn	Ser	Cys	Met	Ser	Gln	Met	Phe	Phe	Ile	His	Leu	Phe	Ser	Phe	Met
			100					105						110	
Glu	Ser	Gly	Ile	Leu	Leu	Ala	Met	Ser	Phe	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Cys	Asn	Pro	Leu	Arg	Tyr	Ser	Thr	Val	Leu	Thr	Asp	Ala	Arg	Val	Met
	130					135					140				
Trp	Met	Gly	Val	Cys	Val	Phe	Leu	Arg	Ser	Phe	Cys	Met	Ile	Phe	Pro
145					150					155					160
Leu	Pro	Phe	Leu	Leu	Lys	Arg	Leu	Pro	Phe	Cys	Lys	Ala	Asn	Val	Leu
			165						170					175	
Ser	His	Ala	Tyr	Cys	Leu	His	Pro	Asp	Leu	Ile	Arg	Leu	Pro	Cys	Gly
		180						185					190		
Asp	Thr	Ser	Ile	Asn	Asn	Ile	Phe	Gly	Leu	Ser	Ile	Val	Ile	Ser	Thr
	195					200						205			
Phe	Gly	Leu	Asp	Ser	Ala	Leu	Ile	Phe	Leu	Ser	Tyr	Val	Leu	Ile	Leu
	210					215					220				
Arg	Ser	Val	Leu	Ala	Ile	Ala	Ser	Arg	Glu	Glu	Arg	Met	Lys	Thr	Leu
225					230					235					240
Asn	Thr	Cys	Val	Ser	His	Leu	Cys	Ala	Val	Leu	Ile	Phe	Tyr	Val	Pro
			245						250					255	
Lys	Val	Gly	Val	Ser	Met	Phe	Ala	Arg	Tyr	Gly	Arg	His	Ala	Pro	His
		260						265					270		
Tyr	Val	His	Thr	Leu	Leu	Ser	Leu	Ile	Tyr	Leu	Phe	Val	Pro	Pro	Met
		275					280					285			
Leu	Asn	Pro	Val	Ile	Tyr	Ser	Ile	Lys	Thr	Lys	Glu	Ile	Arg	Arg	Arg
	290					295					300				
Phe	Cys	Lys	Ile	Leu	Leu	Gly	Asn	Lys	Phe						
305					310										

<210> 1302  
 <211> 321

<212> PRT

<213> Mus musculus

<400> 1302

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Met Leu Arg Pro Ser Ser Met Ser Glu Val Thr Asn Thr Thr His Gly
 1          5          10          15
Pro Phe Tyr Phe Ile Leu Thr Gly Ile Pro Gly Phe Glu Asp Ile His
 20          25          30
Leu Trp Ile Ser Ile Pro Phe Phe Cys Leu Tyr Thr Ile Ser Ile Met
 35          40          45
Gly Asn Thr Thr Ile Leu Thr Val Ile Arg Thr Glu Pro Ser Leu His
 50          55          60
Glu Pro Met Tyr Leu Phe Leu Ser Met Leu Ala Leu Thr Asp Leu Gly
 65          70          75          80
Leu Thr Leu Thr Thr Leu Pro Thr Val Met Gln Val Leu Trp Phe Asn
 85          90          95
Ile Arg Glu Ile Ser Phe Glu Ala Cys Phe Ala Gln Val Phe Phe Leu
100          105          110
His Gly Phe Ser Phe Met Glu Ser Ser Val Leu Leu Ala Met Ser Phe
115          120          125
Asp Arg Tyr Val Ala Ile Cys Arg Pro Leu His Tyr Ala Ser Ile Leu
130          135          140
Thr Ser Glu Val Ile Ala Arg Ile Gly Leu Ala Ile Ile Cys Arg Cys
145          150          155          160
Val Leu Ala Val Leu Pro Ser Leu Phe Leu Leu Lys Arg Leu Pro Phe
165          170          175
Cys His Ser His Leu Leu Ser His Ser Tyr Cys Leu His Gln Asp Met
180          185          190
Ile His Leu Val Cys Ala Asp Ile Arg Val Asn Arg Trp Tyr Gly Phe
195          200          205
Ala Leu Val Leu Leu Ile Ile Val Leu Asp Pro Leu Leu Ile Val Leu
210          215          220
Ser Tyr Ala Leu Ile Leu Lys Ser Val Leu Asn Thr Ala Thr Trp Thr
225          230          235          240
Glu Arg Leu Arg Ala Leu Asn Asn Cys Leu Ser His Met Leu Ala Val
245          250          255
Leu Val Leu Tyr Val Pro Met Val Gly Val Ser Met Thr His Arg Phe
260          265          270
Ala Lys His Ala Ser Pro Leu Val His Val Leu Met Ala Asn Ile Tyr
275          280          285
Leu Leu Ala Pro Pro Val Met Asn Pro Ile Ile Tyr Ser Val Lys Thr
290          295          300
Lys Gln Ile Arg Gln Gly Ile Thr Arg Leu Leu Leu Gln Arg Lys Val
305          310          315          320
His
```

<210> 1303

<211> 317

<212> PRT

<213> Mus musculus

<400> 1303

```
Met Lys Val Ser Ile Pro Pro Arg Ala Asn Phe Ser Tyr Ala Ile Phe
 1          5          10          15
Leu Leu Thr Gly Phe Pro Gly Leu Glu Trp Ala His His Trp Ile Ser
```



Ile	Arg	Glu	Ile	Ser	Phe	Glu	Ala	Cys	Phe	Ala	Gln	Phe	Phe	Phe	Leu
			100					105					110		
His	Gly	Phe	Ser	Phe	Met	Glu	Ser	Ser	Val	Leu	Leu	Ala	Met	Ser	Phe
		115					120					125			
Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg	Pro	Leu	His	Tyr	Ala	Ser	Ile	Leu
		130				135					140				
Thr	Ser	Glu	Val	Ile	Ala	Arg	Ile	Gly	Leu	Ala	Ile	Ile	Cys	Arg	Cys
					150					155					160
Val	Leu	Ala	Val	Leu	Pro	Ser	Leu	Phe	Leu	Leu	Lys	Arg	Leu	Pro	Phe
				165					170					175	
Cys	His	Ser	His	Leu	Ile	Ser	His	Ser	Tyr	Cys	Leu	His	Gln	Asp	Met
			180					185					190		
Ile	His	Leu	Val	Cys	Ala	Asp	Ile	Arg	Val	Asn	Ser	Trp	Tyr	Gly	Phe
		195					200					205			
Ala	Leu	Val	Leu	Leu	Ile	Ile	Val	Leu	Asp	Pro	Leu	Leu	Ile	Val	Leu
		210				215					220				
Ser	Tyr	Ala	Leu	Ile	Leu	Lys	Ser	Val	Leu	Asn	Thr	Ala	Thr	Trp	Thr
					230					235					240
Glu	Arg	Leu	Arg	Ala	Leu	Asn	Asn	Cys	Leu	Ser	His	Met	Leu	Ala	Val
				245				250					255		
Leu	Val	Leu	Tyr	Val	Pro	Met	Val	Gly	Val	Ser	Met	Thr	His	Arg	Phe
			260					265				270			
Ala	Lys	His	Ala	Ser	Pro	Leu	Val	His	Val	Leu	Met	Ala	Asn	Ile	Tyr
		275				280					285				
Leu	Leu	Ala	Pro	Pro	Val	Met	Asn	Pro	Ile	Ile	Tyr	Ser	Val	Lys	Thr
		290				295				300					
Lys	Gln	Ile	Arg	Gln	Gly	Ile	Thr	Arg	Leu	Leu	Leu	Gln	Arg	Lys	Val
					310					315					320
His															

<210> 1305  
 <211> 326  
 <212> PRT  
 <213> Mus musculus

<400> 1305

Met	Lys	Val	Ala	Ser	Ser	Phe	His	Asn	Asp	Thr	Asn	Pro	Gln	Asp	Val
1				5					10					15	
Trp	Tyr	Val	Leu	Ile	Gly	Ile	Pro	Gly	Leu	Glu	Asp	Leu	His	Ser	Trp
			20					25					30		
Ile	Ala	Ile	Pro	Ile	Cys	Ser	Met	Tyr	Ile	Val	Ala	Val	Ile	Gly	Asn
		35				40						45			
Val	Leu	Leu	Ile	Phe	Leu	Ile	Val	Thr	Glu	Arg	Ser	Leu	His	Glu	Pro
		50				55					60				
Met	Tyr	Phe	Phe	Leu	Ser	Met	Leu	Ala	Leu	Ala	Asp	Leu	Leu	Leu	Ser
					70					75					80
Thr	Ala	Thr	Ala	Pro	Lys	Met	Leu	Ala	Ile	Phe	Trp	Phe	His	Ser	Arg
				85					90				95		
Gly	Ile	Ser	Phe	Gly	Ser	Cys	Val	Ser	Gln	Met	Phe	Phe	Ile	His	Phe
			100					105					110		
Ile	Phe	Val	Ala	Glu	Ser	Ala	Ile	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg
		115				120						125			
Tyr	Val	Ala	Ile	Cys	Tyr	Pro	Leu	Arg	Tyr	Thr	Thr	Ile	Leu	Thr	Ser
		130				135					140				
Ser	Val	Ile	Gly	Lys	Ile	Gly	Thr	Ala	Ala	Val	Val	Arg	Ser	Phe	Leu

145		150		155		160
Ile Cys Phe Pro Phe	Ile Phe Leu Val Tyr	Arg Leu Leu Tyr Cys Gly				
	165	170		175		
Lys His Ile Ile Pro	His Ser Tyr Cys Glu	His Met Gly Ile Ala Arg				
	180	185		190		
Leu Ala Cys Asp Asn	Ile Thr Val Asn Ile	Ile Tyr Gly Leu Thr Met				
	195	200		205		
Ala Leu Leu Ser Thr	Gly Leu Asp Ile Leu	Leu Ile Ile Ser Tyr				
	210	215		220		
Thr Met Ile Leu Arg	Thr Val Phe Gln Ile	Pro Ser Trp Ala Ala Arg				
	225	230		235		240
Tyr Lys Ala Leu Asn	Thr Cys Gly Ser His	Ile Cys Val Ile Leu Leu				
	245	250		255		
Phe Tyr Thr Pro Ala	Phe Phe Ser Phe Phe	Ala His Arg Phe Gly Gly				
	260	265		270		
Lys Thr Val Pro Arg	His Ile His Ile Leu	Val Ala Asn Leu Tyr Val				
	275	280		285		
Val Val Pro Pro Met	Leu Asn Pro Ile Ile	Tyr Gly Val Lys Thr Lys				
	290	295		300		
Gln Ile Gln Asp Arg	Val Val Phe Leu Phe	Ser Ser Val Ser Thr Cys				
	305	310		315		320
Gln His Asp Ser Arg	Cys					
	325					

<210> 1306  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1306

Met Leu Gly Thr Asn Phe Thr Ile Ile His Pro Thr Val Phe Ile Leu	
1 5 10 15	
Leu Gly Ile Pro Gly Leu Glu Gln Tyr His Thr Trp Leu Ser Ile Pro	
20 25 30	
Phe Cys Leu Met Tyr Ile Ala Ala Val Leu Gly Asn Gly Ala Leu Ile	
35 40 45	
Leu Val Val Leu Ser Glu Arg Thr Leu His Glu Pro Met Tyr Val Phe	
50 55 60	
Leu Ser Met Leu Ala Gly Thr Asp Ile Leu Leu Ser Thr Thr Thr Val	
65 70 75 80	
Pro Lys Thr Leu Ala Ile Phe Trp Phe His Ala Gly Glu Ile Pro Phe	
85 90 95	
Asp Ala Cys Ile Ala Gln Met Phe Phe Ile His Val Ala Phe Val Ala	
100 105 110	
Glu Ser Gly Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile	
115 120 125	
Cys Thr Pro Leu Arg Tyr Ser Ala Val Leu Thr Pro Met Ala Ile Gly	
130 135 140	
Lys Met Thr Leu Ala Ile Trp Gly Arg Ser Ile Gly Thr Ile Phe Pro	
145 150 155 160	
Ile Ile Phe Leu Leu Lys Arg Leu Ser Tyr Cys Arg Thr Asn Val Ile	
165 170 175	
Pro His Ser Tyr Cys Glu His Ile Gly Val Ala Arg Leu Ala Cys Ala	
180 185 190	
Asp Ile Thr Val Asn Ile Trp Tyr Gly Phe Ser Val Pro Met Ala Ser	
195 200 205	

Val	Leu	Val	Asp	Val	Ala	Leu	Ile	Gly	Ile	Ser	Tyr	Thr	Leu	Ile	Leu
210						215					220				
Gln	Ala	Val	Phe	Arg	Leu	Pro	Ser	Gln	Asp	Ala	Arg	His	Lys	Ala	Leu
225					230					235					240
Asn	Thr	Cys	Gly	Ser	His	Ile	Gly	Val	Ile	Leu	Leu	Phe	Phe	Ile	Pro
				245					250					255	
Ser	Phe	Phe	Thr	Phe	Leu	Thr	His	Arg	Phe	Gly	Lys	Asn	Ile	Pro	His
			260					265					270		
His	Val	His	Ile	Leu	Leu	Ala	Asn	Leu	Tyr	Val	Leu	Val	Pro	Pro	Met
		275					280					285			
Leu	Asn	Pro	Ile	Ile	Tyr	Gly	Ala	Lys	Thr	Lys	Gln	Ile	Arg	Asp	Ser
	290					295					300				
Met	Thr	Arg	Met	Leu	Ser	Val	Val	Trp	Lys	Ser					
305					310					315					

<210> 1307  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1307

Met	Ala	Ile	Leu	Tyr	Asn	Ser	Ser	Leu	Gln	Lys	Ala	Thr	Phe	Phe	Leu
1			5					10					15		
Thr	Gly	Phe	Gln	Gly	Leu	Glu	Glu	Phe	His	Gly	Trp	Ile	Ser	Ile	Pro
			20					25				30			
Phe	Cys	Ser	Ile	Tyr	Leu	Ile	Val	Ile	Leu	Gly	Asn	Leu	Thr	Ile	Leu
		35				40					45				
His	Val	Ile	Arg	Thr	Asp	Ala	Thr	Leu	His	Glu	Pro	Met	Tyr	Tyr	Phe
	50					55				60					
Leu	Ala	Met	Leu	Ala	Leu	Thr	Asp	Leu	Gly	Leu	Cys	Leu	Ser	Thr	Leu
65					70				75						80
Pro	Thr	Val	Leu	Gly	Ile	Phe	Trp	Phe	Asp	Ala	Arg	Glu	Ile	Gly	Ile
			85					90				95			
Pro	Ala	Cys	Phe	Thr	Gln	Leu	Phe	Phe	Ile	His	Thr	Leu	Ser	Leu	Val
		100					105					110			
Glu	Ser	Ser	Val	Leu	Leu	Ser	Met	Ser	Phe	Asp	Arg	Tyr	Val	Ala	Ile
		115				120						125			
Cys	Asn	Pro	Leu	Arg	Tyr	Ser	Thr	Ile	Leu	Thr	Pro	Arg	Arg	Ile	Val
	130					135					140				
Lys	Met	Gly	Leu	Ser	Ser	Val	Leu	Arg	Ser	Ala	Leu	Leu	Ile	Leu	Pro
145					150					155					160
Leu	Pro	Phe	Leu	Leu	Lys	Arg	Phe	His	Tyr	Cys	Arg	Ser	His	Val	Leu
			165					170						175	
Ala	His	Ala	Tyr	Cys	Leu	His	Leu	Glu	Ile	Met	Lys	Leu	Ala	Cys	Ser
		180						185					190		
Ser	Ile	Ile	Val	Asn	His	Ile	Tyr	Gly	Leu	Phe	Val	Val	Ala	Cys	Thr
		195				200						205			
Val	Gly	Val	Asp	Ser	Leu	Leu	Ile	Phe	Leu	Ser	Tyr	Thr	Leu	Ile	Leu
	210					215					220				
His	Ala	Val	Leu	Gly	Lys	Ala	Ser	Arg	Gln	Glu	Arg	Leu	Arg	Ala	Leu
225					230					235					240
Asn	Thr	Cys	Ile	Ser	His	Ile	Cys	Ala	Val	Leu	Leu	Phe	Tyr	Ile	Pro
				245					250					255	
Met	Ile	Gly	Leu	Ser	Leu	Val	His	Arg	Phe	Gly	Glu	His	Leu	Pro	Arg
		260						265					270		
Ile	Val	His	Leu	Leu	Met	Ser	Tyr	Val	Tyr	Leu	Leu	Val	Pro	Pro	Leu

	275		280		285
Met	Asn	Pro	Ile	Val	Tyr
	290		295		300
Ile	Ile	Lys	Lys	Phe	Glu
305					310

<210> 1308  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 1308															
Met	Leu	Val	Lys	Ser	Ser	Ile	Met	Ser	Val	Leu	Asn	Ser	Ser	Glu	Ile
1				5					10					15	
Glu	Ile	Thr	Thr	Phe	Phe	Leu	Ile	Gly	Ile	Pro	Gly	Leu	Glu	Tyr	Ala
			20					25					30		
His	Ala	Trp	Ile	Ser	Ile	Pro	Ile	Cys	Leu	Met	Tyr	Leu	Val	Ala	Ile
		35				40					45				
Leu	Gly	Asn	Cys	Thr	Ile	Leu	Phe	Val	Ile	Arg	Thr	Glu	Pro	Ser	Leu
	50				55					60					
His	Ala	Pro	Met	Tyr	Tyr	Phe	Leu	Ser	Met	Leu	Ala	Ile	Ser	Asp	Leu
65				70					75					80	
Gly	Leu	Ser	Leu	Ser	Ser	Leu	Pro	Thr	Met	Leu	Arg	Ile	Phe	Val	Phe
			85					90					95		
Asn	Ala	Thr	Gly	Ile	Ser	Pro	Asn	Ala	Cys	Phe	Ala	Gln	Glu	Phe	Phe
			100					105					110		
Ile	His	Gly	Phe	Thr	Asp	Met	Glu	Ser	Ser	Val	Leu	Leu	Ile	Met	Ser
		115				120						125			
Phe	Asp	Arg	Phe	Leu	Ala	Ile	Arg	Asn	Pro	Leu	Arg	Tyr	Ser	Ser	Ile
	130				135					140					
Leu	Thr	Ser	Ala	Arg	Val	Ala	Lys	Met	Gly	Leu	Val	Phe	Leu	Ile	Lys
145				150					155					160	
Ser	Met	Leu	Leu	Val	Leu	Pro	Phe	Pro	Phe	Thr	Leu	Lys	Arg	Leu	Ala
			165					170					175		
Tyr	Cys	Gln	Lys	Ser	Leu	Leu	Ser	His	Ser	Tyr	Cys	Leu	His	Gln	Asp
		180					185					190			
Val	Met	Lys	Leu	Ala	Cys	Ser	Asp	Asn	Thr	Val	Asn	Phe	Phe	Tyr	Gly
	195					200					205				
Phe	Phe	Val	Ala	Leu	Cys	Met	Met	Ser	Asp	Ser	Met	Phe	Ile	Ala	Val
	210				215					220					
Ser	Tyr	Ile	Phe	Ile	Leu	Lys	Thr	Val	Met	Gly	Ile	Gly	Ser	His	Lys
225				230					235					240	
Glu	Arg	Leu	Lys	Ala	Leu	Asn	Thr	Cys	Val	Ser	His	Ile	Cys	Ala	Val
			245					250					255		
Leu	Ile	Phe	Tyr	Val	Pro	Ile	Ile	Ala	Leu	Ala	Ser	Met	His	Arg	Phe
		260					265					270			
Gly	Lys	His	Lys	Ser	Pro	Met	Ala	Met	Ile	Leu	Ile	Ala	Asp	Ile	Phe
	275					280						285			
Leu	Leu	Val	Pro	Pro	Leu	Met	Asn	Pro	Ile	Val	Tyr	Cys	Val	Lys	Thr
	290				295					300					
Arg	Gln	Ile	Arg	Glu	Lys	Val	Leu	Gly	Lys	Leu	Gly	Leu	Lys		
305					310					315					

<210> 1309  
 <211> 314



<212> PRT

<213> Mus musculus

<400> 1309

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Met Pro Thr Phe Gln Asn Thr Thr Ala Ser Ser Ile Ile Phe Leu Leu
 1          5          10          15
Thr Gly Val Pro Gly Leu Glu Ala Phe His Thr Trp Ile Ser Ile Pro
      20          25          30
Phe Cys Phe Leu Tyr Ala Thr Ala Leu Ser Gly Asn Ser Leu Ile Leu
      35          40          45
Phe Val Ile Ile Thr Gln Pro Ser Leu His Glu Pro Met Tyr Tyr Phe
      50          55          60
Leu Ser Met Leu Ser Thr Thr Asp Leu Gly Leu Ser Ile Ser Thr Leu
65          70          75          80
Ala Thr Met Leu Gly Ile Phe Trp Phe Asn Ala Arg Glu Ile Ser Phe
      85          90          95
Asn Ala Cys Leu Ser Leu Met Phe Phe Ile Lys Leu Phe Thr Val Met
      100          105          110
Glu Ser Ser Val Leu Leu Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile
      115          120          125
Ser Asn Pro Leu Arg Tyr Ala Thr Ile Leu Thr Asp Ser Arg Ile Ala
      130          135          140
Gln Ile Gly Val Thr Ile Val Ile Arg Gly Thr Val Met Leu Thr Pro
145          150          155          160
Met Val Ala Leu Leu Lys Arg Leu Thr Phe Cys Ser Ser Arg Val Leu
      165          170          175
His His Ser Tyr Cys Phe His Pro Asp Val Met Lys Leu Ser Cys Thr
      180          185          190
Asp Thr Arg Ile Asn Asn Ala Val Gly Leu Thr Ala Met Ile Ser Thr
      195          200          205
Val Gly Val Asp Ser Val Leu Ile Leu Leu Ser Tyr Ile Leu Ile Ile
      210          215          220
Arg Thr Val Leu Ser Ile Ala Ser Pro Glu Glu Arg Lys Lys Ala Phe
225          230          235          240
Ser Thr Cys Ile Ser His Ile Gly Ala Val Ala Ile Phe Tyr Ile Pro
      245          250          255
Leu Ile Ser Leu Ser Phe Val His Arg Phe Gly Lys Arg Ala Pro Pro
      260          265          270
Tyr Val His Thr Met Ile Ala Asn Thr Tyr Leu Leu Ile Pro Pro Val
      275          280          285
Met Asn Pro Ile Ile Tyr Ser Val Lys Thr Lys Gln Ile Arg Lys Ala
      290          295          300
Val Ile Lys Val Phe Gln Ser Lys Glu Ile
305          310
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<210> 1310

<211> 318

<212> PRT

<213> Mus musculus

<400> 1310

```
Met Ile Pro Ser Gly Pro Phe Ile Asn Ile Ser Phe Phe Gln Pro Gln
 1          5          10          15
Ser Phe Leu Met Ile Gly Ile Pro Gly Leu Glu Phe Ala His Gly Trp
      20          25          30
Ile Ser Ile Pro Phe Ser Phe Met Tyr Thr Val Ala Leu Thr Gly Asn
```



Phe	Ser	Ala	Met	Glu	Ser	Ser	Val	Leu	Leu	Ile	Met	Ser	Phe	Asp	Arg
		115					120					125			
Tyr	Ile	Ala	Ile	Cys	Asn	Pro	Leu	Arg	Tyr	Thr	Ser	Ile	Leu	Thr	Ser
		130				135					140				
Ala	Arg	Val	Leu	Gln	Ile	Gly	Leu	Ala	Phe	Ser	Leu	Lys	Asn	Val	Leu
		145			150				155						160
Leu	Ile	Leu	Pro	Phe	Pro	Val	Thr	Leu	Val	Arg	Leu	Arg	Tyr	Cys	Lys
			165					170						175	
Lys	Asn	Leu	Leu	Ser	His	Ser	Tyr	Cys	Leu	His	Gln	Asp	Val	Met	Lys
		180						185					190		
Leu	Ala	Cys	Ser	Asp	Asn	Lys	Phe	Asn	Val	Ile	Tyr	Gly	Leu	Phe	Val
		195					200					205			
Ala	Leu	Thr	Gly	Ile	Leu	Asp	Ile	Thr	Phe	Ile	Phe	Met	Ser	Tyr	Ala
		210				215					220				
Leu	Ile	Leu	Arg	Ala	Val	Leu	Gly	Ile	Ala	Ser	Gln	Arg	Glu	Arg	Leu
		225			230				235						240
Lys	Val	Leu	Ser	Thr	Cys	Val	Ser	His	Ile	Cys	Ala	Val	Leu	Ile	Phe
			245					250						255	
Tyr	Val	Pro	Val	Ile	Ser	Leu	Ala	Val	Ile	Tyr	Arg	Leu	Ala	Ser	Arg
		260					265						270		
Ser	Ser	Pro	Ile	Ser	Lys	Ile	Leu	Met	Ala	Asp	Ile	Phe	Leu	Leu	Val
		275				280						285			
Pro	Pro	Val	Met	Asn	Pro	Ile	Ile	Tyr	Cys	Val	Lys	Ser	Gln	Gln	Ile
		290			295						300				
Arg	Asn	Val	Ile	Leu	Glu	Lys	Leu	Cys	Gln	Lys	Gln	Ser			
		305			310				315						

<210> 1312  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1312

Met	Ile	Leu	Asn	Thr	Ser	Glu	Val	Glu	Ile	Ser	Ser	Phe	Leu	Leu	Ile
1			5					10					15		
Gly	Ile	Pro	Gly	Phe	Glu	His	Met	His	Ile	Trp	Ile	Ser	Ile	Pro	Ile
		20						25				30			
Cys	Leu	Met	Tyr	Leu	Thr	Ala	Ile	Leu	Gly	Asn	Cys	Thr	Ile	Leu	Cys
		35				40					45				
Val	Ile	Arg	Thr	Glu	Pro	Ser	Leu	His	Glu	Pro	Met	Tyr	Tyr	Phe	Leu
		50				55				60					
Ser	Met	Leu	Ala	Phe	Ser	Asp	Leu	Gly	Leu	Ser	Phe	Ser	Ser	Ile	Pro
		65			70				75					80	
Thr	Met	Leu	Arg	Ile	Phe	Leu	Phe	Asn	Ala	Met	Gly	Ile	Ser	Thr	Asp
			85					90						95	
Ala	Cys	Ile	Ala	Gln	Glu	Phe	Phe	Ile	His	Gly	Phe	Thr	Asp	Met	Glu
		100						105				110			
Ser	Ser	Val	Leu	Leu	Ile	Met	Ser	Phe	Asp	Arg	Phe	Val	Ala	Ile	Arg
		115				120					125				
His	Pro	Leu	Arg	Tyr	Ser	Ala	Ile	Leu	Thr	Ser	Ser	Arg	Val	Val	Gln
		130				135				140					
Ile	Gly	Leu	Ala	Phe	Ser	Val	Lys	Ser	Ile	Leu	Leu	Val	Leu	Pro	Leu
		145			150				155					160	
Pro	Phe	Thr	Leu	Lys	Arg	Leu	Arg	Tyr	Cys	Asn	Lys	Arg	Leu	Leu	Ser
			165					170					175		
His	Ser	Tyr	Cys	Leu	His	Gln	Asp	Val	Met	Lys	Leu	Ala	Cys	Ser	Asp





<210> 1315  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1315  
 Met Ser Pro Gly Asn His Ser Glu Ala Ser Leu Phe Val Leu Glu Gly  
 1 5 10 15  
 Leu Thr Asp Gln Pro Gly Leu Gln Ile Pro Leu Phe Ser Leu Phe Leu  
 20 25 30  
 Leu Ile Tyr Leu Val Ser Met Ala Gly Asn Leu Gly Leu Val Phe Leu  
 35 40 45  
 Ile Arg Ile Ser Ser Gln Leu His Thr Pro Met Tyr His Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Ser Val Ile Ile Pro Lys  
 65 70 75 80  
 Met Leu Val Asn Phe Val Ser Glu Lys Asn Phe Thr Ala Phe Pro Glu  
 85 90 95  
 Cys Met Val Gln Leu Phe Leu Phe Ser Phe Phe Gly Ile Asp Asp Ser  
 100 105 110  
 Tyr Met Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn  
 115 120 125  
 Pro Leu Leu Tyr Asn Val Thr Met Ser His Arg Val Cys Met Leu Leu  
 130 135 140  
 Ser Thr Ala Val Tyr Ala Met Gly Ala Phe Gly Ala Thr Val His Thr  
 145 150 155 160  
 Ser Tyr Ile Ser Ser Arg Ser Phe Cys Gly Thr Asn Val Ile His His  
 165 170 175  
 Tyr Phe Cys Asp Ile Leu Pro Leu Ile Asn Ile Ala Cys Ser Arg Asp  
 180 185 190  
 Tyr Thr Lys Glu Phe Trp Val Met Ile Leu Val Gly Phe Asn Val Phe  
 195 200 205  
 Ala Ser Val Phe Ser Ile Phe Ile Ser Tyr Ala Phe Ile Leu Ala Ser  
 210 215 220  
 Ile Leu Arg Ile Arg Ser Ala Asp Gly Arg Ser Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ser Ser His Leu Ala Ala Val Gly Val Phe Tyr Gly Ser Ile Ile  
 245 250 255  
 Phe Met Tyr Phe Lys Pro Ser Thr Gly Asn Thr Thr Gln Glu Lys Val  
 260 265 270  
 Ala Ser Val Phe Tyr Thr Thr Val Ile Pro Met Leu Asn Pro Leu Ile  
 275 280 285  
 Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Ile Lys Lys Ala Leu  
 290 295 300  
 Asn Ser Gly Leu Phe Ser  
 305 310

<210> 1316  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1316  
 Met Leu Asn Gly Ser Val Val Thr Thr Phe Phe Leu Ser Gly Leu Pro  
 1 5 10 15

His Pro Pro Val Leu Asp Ser Met Leu Phe Gly Ile Phe Leu Val Ile  
                   20                  25                  30  
 Tyr Ile Leu Thr Val Leu Gly Asn Leu Leu Ile Leu Met Val Ile Arg  
           35                  40                  45  
 Val Asp Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu Thr Asn Leu  
       50                  55                  60  
 Ser Phe Ile Asp Met Trp Phe Ser Thr Val Thr Val Pro Lys Met Leu  
 65                  70                  75                  80  
 Met Thr Leu Val Ser Thr Gly Gly Gly Ala Ile Ser Phe His Ser Cys  
                   85                  90                  95  
 Val Ala Gln Leu Tyr Cys Phe His Phe Leu Gly Ser Thr Glu Cys Phe  
           100                  105                  110  
 Leu Tyr Thr Val Met Ser Tyr Asp Arg Tyr Leu Ala Ile Ser Tyr Pro  
           115                  120                  125  
 Leu Arg Tyr Ser Ser Met Met Ser Gly Arg Val Cys Ala Leu Leu Ala  
           130                  135                  140  
 Ala Gly Thr Trp Ile Thr Gly Ser Leu His Ser Ala Val Gln Thr Thr  
 145                  150                  155                  160  
 Leu Ile Phe His Leu Pro Tyr Cys Gly Pro Asn Glu Ile Gln His Tyr  
                   165                  170                  175  
 Phe Cys Asp Gly Pro Pro Ile Leu Lys Leu Ala Cys Ala Asp Thr Ser  
           180                  185                  190  
 Ala Ile Glu Met Val Ile Phe Val Asn Ile Gly Val Val Ala Ser Gly  
           195                  200                  205  
 Cys Phe Phe Leu Ile Ser Leu Ser Tyr Val Ser Ile Val Cys Ser Ile  
           210                  215                  220  
 Leu Arg Ile Arg Thr Ser Glu Gly Arg His Arg Ala Phe Gln Thr Cys  
 225                  230                  235                  240  
 Ala Ser His Cys Ile Val Val Leu Cys Phe Phe Val Pro Cys Val Phe  
                   245                  250                  255  
 Ile Tyr Leu Arg Pro Gly Ser Arg Asp Ala Val Asp Gly Val Val Thr  
                   260                  265                  270  
 Val Phe Tyr Thr Val Leu Thr Pro Leu Leu Asn Pro Val Val Tyr Thr  
                   275                  280                  285  
 Leu Arg Asn Lys Glu Val Lys Lys Ala Leu Phe Lys Leu Lys Asp Lys  
           290                  295                  300  
 Val Ala Phe Ser Gln Arg  
 305                  310

<210> 1317  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1317  
 Met Ser Asn Thr Ser Ile Val Thr Thr Phe Phe Leu Ser Gly Leu Pro  
   1                  5                  10                  15  
 His Pro Pro Val Leu Asp Ser Met Leu Phe Gly Ile Phe Leu Val Ile  
           20                  25                  30  
 Tyr Ile Leu Thr Val Leu Gly Asn Leu Leu Ile Leu Thr Val Ile Arg  
           35                  40                  45  
 Val Asp Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu Thr Asn Leu  
       50                  55                  60  
 Ser Phe Ile Asp Met Trp Phe Ser Thr Val Thr Val Pro Lys Met Leu  
 65                  70                  75                  80  
 Met Thr Leu Val Ser Thr Gly Gly Gly Ala Ile Ser Phe His Ser Cys





Pro	Ile	Leu	Leu	Arg	Arg	Leu	Ile	Phe	Pro	Gln	Ile	Ser	Thr	Leu	Ser	
				165					170						175	
His	Cys	Tyr	Cys	Leu	His	Cys	Asp	Leu	Val	Gly	Leu	Ala	Cys	Ser	Asp	
			180					185					190			
Thr	Arg	Ile	Asn	Ser	Leu	Val	Gly	Leu	Val	Ser	Ile	Leu	Leu	Ser	Leu	
		195					200					205				
Gly	Leu	Asp	Ser	Ser	Leu	Ile	Met	Leu	Ser	Tyr	Ala	Leu	Ile	Leu	Arg	
	210					215					220					
Thr	Val	Leu	Gly	Ile	Ala	Ser	Pro	Gly	Glu	Arg	Leu	Lys	Ala	Leu	Asn	
225					230					235					240	
Thr	Cys	Val	Ser	His	Leu	Cys	Ile	Val	Leu	Ile	Phe	Tyr	Leu	Pro	Lys	
				245					250					255		
Leu	Gly	Leu	Ser	Val	Leu	His	Arg	Val	Glu	Lys	His	Ser	Tyr	Pro	Ala	
		260						265					270			
Leu	Ala	Val	Leu	Met	Ala	Asn	Leu	His	Phe	Leu	Val	Pro	Pro	Phe	Met	
	275						280					285				
Asn	Pro	Val	Val	Tyr	Cys	Ile	Lys	Ser	Lys	Gln	Ile	Arg	Gln	Gly	Phe	
	290					295					300					
Leu	Arg	Arg	Phe	Gln	Gln	Lys	Arg	Val	Asp	Ile	Ser					
305					310					315						

<210> 1319

<211> 315

<212> PRT

<213> Mus musculus

<400> 1319

Met	Asn	Ser	Asn	Ala	Ser	Gln	Thr	Asn	His	His	Ser	Phe	Ile	Leu	Thr	
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Gly	Ile	Pro	Gly	Met	Pro	Asp	Lys	Asn	Pro	Trp	Met	Ala	Phe	Pro	Leu	
			20					25					30			
Gly	Phe	Leu	Tyr	Thr	Leu	Thr	Leu	Leu	Gly	Asn	Gly	Thr	Ile	Leu	Ala	
		35				40						45				
Val	Val	Lys	Val	Glu	Gln	Ser	Leu	His	Glu	Pro	Met	Tyr	Tyr	Phe	Leu	
	50					55					60					
Cys	Ile	Leu	Ala	Leu	Thr	Asp	Val	Ser	Leu	Ser	Met	Ser	Thr	Leu	Pro	
65					70					75					80	
Ser	Met	Leu	Ser	Ile	Phe	Trp	Phe	Asn	Ala	Pro	Glu	Ile	Pro	Phe	Asp	
				85					90					95		
Ala	Cys	Ile	Thr	Gln	Met	Phe	Phe	Ile	His	Gly	Phe	Gly	Val	Val	Glu	
			100					105					110			
Ser	Gly	Val	Leu	Val	Ser	Met	Ala	Phe	Asp	Arg	Phe	Val	Ala	Ile	Arg	
		115					120					125				
Asp	Pro	Leu	Arg	Tyr	Ala	Ser	Ile	Leu	Thr	His	Gly	Leu	Ile	Gly	Lys	
	130					135					140					
Ile	Gly	Leu	Val	Val	Leu	Ala	Arg	Ala	Val	Cys	Val	Val	Phe	Pro	Val	
145					150					155					160	
Pro	Phe	Leu	Ile	Lys	Arg	Leu	Pro	Phe	Cys	Arg	Ser	Asn	Val	Leu	Ser	
				165					170					175		
His	Ser	Tyr	Cys	Leu	His	Gln	Asp	Ala	Met	Arg	Leu	Ala	Cys	Ala	Ser	
		180						185					190			
Thr	Arg	Val	Asn	Ser	Leu	Tyr	Gly	Leu	Ile	Val	Val	Ile	Leu	Thr	Leu	
		195					200					205				
Gly	Leu	Asp	Ala	Leu	Ile	Ile	Leu	Phe	Ser	Tyr	Val	Leu	Ile	Leu	Lys	
	210					215					220					
Thr	Val	Leu	Gly	Ile	Ala	Ser	Arg	Ala	Glu	Arg	Leu	Lys	Ala	Leu	Asn	

225		230		235		240									
Thr	Cys	Leu	Ser	His	Ile	Cys	Ala	Val	Leu	Leu	Phe	Tyr	Ile	Pro	Leu
				245					250					255	
Ile	Gly	Ala	Thr	Met	Ile	His	Arg	Phe	Gly	Lys	His	Leu	Ser	Pro	Val
			260					265					270		
Val	His	Met	Phe	Met	Ala	Asn	Ile	Tyr	Leu	Leu	Leu	Pro	Pro	Val	Leu
		275					280					285			
Asn	Pro	Ile	Val	Tyr	Ser	Val	Lys	Thr	Lys	Gln	Ile	Arg	Arg	Arg	Ile
	290					295					300				
Ile	Gln	Val	Phe	Arg	Gly	Arg	Lys	Asn	Met	Ser					
305					310					315					

<210> 1320  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1320

Met	Leu	Val	Asn	Asn	Ile	Thr	Ser	Thr	His	Pro	Val	Ala	Phe	Leu	Leu
1			5						10					15	
Met	Gly	Ile	Pro	Gly	Leu	Glu	His	Leu	His	Ile	Trp	Ile	Ser	Ile	Pro
			20					25					30		
Phe	Cys	Ser	Ala	Tyr	Thr	Leu	Ala	Val	Leu	Gly	Asn	Cys	Thr	Leu	Leu
		35					40					45			
Phe	Ile	Ile	Arg	Val	Asp	Ala	Ala	Leu	His	Glu	Thr	Met	Tyr	Leu	Phe
	50					55				60					
Leu	Ala	Met	Leu	Ala	Ala	Ile	Asp	Leu	Val	Leu	Ser	Ser	Ser	Thr	Leu
65					70				75						80
Pro	Lys	Met	Leu	Ser	Leu	Phe	Trp	Phe	Arg	Asp	Arg	Glu	Ile	Asn	Phe
			85					90						95	
His	Ala	Cys	Leu	Ile	Gln	Met	Phe	Phe	Leu	His	Ser	Phe	Ala	Ile	Met
			100					105					110		
Glu	Ser	Ala	Met	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Cys	Lys	Pro	Leu	His	Tyr	Thr	Thr	Ile	Leu	Thr	Lys	Pro	Leu	Ile	Ile
	130					135					140				
Lys	Ile	Gly	Leu	Ala	Ala	Val	Thr	Arg	Ala	Val	Thr	Leu	Met	Thr	Pro
145					150					155					160
Leu	Pro	Phe	Leu	Leu	Arg	Arg	Phe	His	Tyr	Cys	Arg	Gly	Thr	Val	Ile
			165					170						175	
Ala	His	Cys	Tyr	Cys	Glu	His	Met	Ala	Val	Val	Arg	Leu	Ala	Cys	Gly
		180						185					190		
Asp	Thr	Arg	Phe	Asn	Asn	Ile	Tyr	Gly	Ile	Ala	Val	Ala	Met	Phe	Ile
		195					200					205			
Val	Val	Leu	Asp	Leu	Leu	Phe	Val	Ile	Leu	Ser	Tyr	Ile	Phe	Ile	Leu
	210					215					220				
Arg	Ala	Val	Leu	Gln	Leu	Ala	Ser	Gln	Glu	Ala	Arg	Tyr	Lys	Ala	Phe
225					230					235					240
Gly	Thr	Cys	Val	Ser	His	Ile	Gly	Ala	Ile	Leu	Ala	Phe	Tyr	Thr	Pro
			245						250					255	
Val	Val	Ile	Ser	Ser	Val	Met	His	Arg	Val	Ala	Arg	Arg	Ala	Ala	Pro
		260						265					270		
His	Val	His	Ile	Leu	Leu	Ala	Asn	Phe	Tyr	Leu	Leu	Phe	Pro	Pro	Met
	275						280					285			
Val	Asn	Pro	Ile	Ile	Tyr	Gly	Val	Lys	Thr	Lys	Gln	Ile	Arg	Glu	Arg
	290					295					300				

Val Leu Gly Leu Phe Leu Arg Lys Asp Leu Lys Gly Glu  
 305 310 315

<210> 1321  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 1321  
 Met Ala Pro Phe Asn Tyr Thr Gly Thr Ser His Ser Val Phe Ile Leu  
 1 5 10 15  
 Leu Gly Ile Pro Gly Leu Glu Glu Gln His Leu Trp Ile Ser Leu Pro  
 20 25 30  
 Phe Phe Ile Ser Tyr Leu Val Ala Leu Phe Gly Asn Ile Thr Leu Ile  
 35 40 45  
 Leu Val Ile Ile Ala Glu Arg Ser Leu His Glu Pro Met Tyr Leu Phe  
 50 55 60  
 Leu Cys Met Leu Ala Ala Asp Leu Ile Leu Ser Thr Thr Thr Val  
 65 70 75 80  
 Pro Lys Ala Leu Ala Ile Phe Trp Phe Arg Ala Gly Ala Ile Ser Leu  
 85 90 95  
 Asp Gly Cys Val Thr Gln Ile Phe Phe Ile His Ala Thr Phe Ile Ala  
 100 105 110  
 Glu Ser Gly Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile  
 115 120 125  
 Cys Asp Pro Leu His Tyr Ser Thr Val Leu Ser His Val Ile Ile Val  
 130 135 140  
 Arg Ile Gly Leu Ala Val Val Leu Arg Ser Phe Cys Val Ile Leu Pro  
 145 150 155 160  
 Asp Val Phe Leu Val Lys Arg Leu Pro Phe Cys Arg Ser Asn Val Leu  
 165 170 175  
 Pro His Thr Tyr Cys Glu His Met Ala Val Ala Arg Phe Ala Cys Ala  
 180 185 190  
 Asp Ile Arg Val Asn Val Trp Tyr Gly Leu Ser Val Leu Leu Ser Thr  
 195 200 205  
 Val Val Leu Asp Ala Leu Leu Ile Leu Val Ser Tyr Gly Leu Ile Leu  
 210 215 220  
 His Thr Val Phe Arg Leu Pro Ser Arg Gly Ala Arg Gln Lys Ala Leu  
 225 230 235 240  
 Gly Thr Cys Gly Ser His Leu Gly Val Ile Ser Met Phe Tyr Leu Pro  
 245 250 255  
 Gly Ile Phe Thr Ile Ile Thr Gln Arg Phe Gly Gln His Val Pro Leu  
 260 265 270  
 His Thr His Ile Leu Leu Ala Asn Val Cys Met Leu Ala Pro Pro Met  
 275 280 285  
 Leu Asn Pro Ile Ile Tyr Gly Ile Lys Thr Arg Gln Ile Arg Glu Arg  
 290 295 300  
 Val Leu Ser Ser Leu Ser Ser Gln Trp Lys Leu Arg  
 305 310 315

<210> 1322  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1322

Met	Ser	Asp	Val	Asn	Thr	Thr	Ser	Asn	Trp	Pro	Thr	Phe	Ser	Phe	Ile
1				5					10					15	
Gly	Ile	Pro	Gly	Leu	Glu	Ala	Ala	His	Met	Trp	Ile	Ser	Ile	Pro	Phe
		20						25					30		
Cys	Leu	Leu	Tyr	Leu	Val	Ala	Leu	Gly	Gly	Asn	Val	Leu	Leu	Leu	
	35						40					45			
Leu	Val	Arg	Ala	Glu	Gln	Asn	Leu	His	Glu	Pro	Gln	Phe	Tyr	Phe	Leu
	50					55					60				
Ala	Met	Leu	Ala	Leu	Thr	Asp	Leu	Gly	Leu	Ser	Leu	Ser	Thr	Met	Pro
65					70					75					80
Ser	Val	Leu	Ala	Ile	Phe	Trp	Phe	Asp	Val	His	Asn	Val	Gly	Leu	Asp
				85					90					95	
Ala	Cys	Leu	Thr	Gln	Met	Phe	Phe	Ile	His	Thr	Leu	Ser	Ser	Val	Glu
			100					105						110	
Ser	Gly	Val	Leu	Val	Ala	Met	Ala	Phe	Asp	Arg	Leu	Val	Ala	Ile	Cys
		115					120						125		
Ala	Pro	Leu	Thr	Tyr	Thr	Arg	Ile	Leu	Asn	His	Gln	Thr	Val	Leu	Cys
	130					135					140				
Leu	Ser	Gly	Ala	Ala	Leu	Ile	Arg	Gly	Ala	Thr	Leu	Leu	Ala	Pro	Leu
145					150					155					160
Pro	Phe	Phe	Leu	Arg	Thr	Phe	Pro	Phe	Cys	Gly	Ala	Asn	Ile	Leu	Ser
			165						170					175	
His	Ser	Tyr	Cys	Tyr	Tyr	Pro	Asp	Met	Leu	Asn	Leu	Ala	Cys	Gly	Asp
		180					185						190		
Val	Thr	Phe	Ser	Ser	Val	Tyr	Gly	Leu	Val	Cys	Val	Leu	Cys	Thr	Phe
	195						200					205			
Ala	Val	Asp	Val	Ile	Phe	Ile	Leu	Val	Ser	Tyr	Met	Lys	Ile	Leu	Gly
	210					215					220				
Thr	Val	Met	Lys	Leu	Gly	Ile	Gln	Asp	Arg	Asn	Trp	Lys	Ser	Leu	Gln
225					230					235					240
Thr	Cys	Val	Cys	His	Leu	Cys	Thr	Val	Leu	Val	Phe	Tyr	Leu	Pro	Leu
			245						250					255	
Ile	Ser	Leu	Ala	Val	Leu	His	Arg	Tyr	Thr	Gln	Glu	Thr	Ser	Pro	Ile
		260					265						270		
Leu	Tyr	Thr	Thr	Met	Ser	Asn	Ala	Tyr	Leu	Leu	Met	Thr	Pro	Leu	Leu
	275					280						285			
Asn	Pro	Leu	Val	Tyr	Ser	Leu	Lys	Ser	Arg	Gln	Ile	Gln	Ala	Ala	Leu
	290					295					300				
Arg	Lys	Arg	Phe	Gly	Val	Gln	Arg	Val	Val	Ala	Gly	Glu			
305					310					315					

<210> 1323

<211> 317

<212> PRT

<213> Mus musculus

<400> 1323

Met	Glu	Ile	Thr	Asn	Ser	Ser	Trp	Phe	Gln	Pro	Pro	Thr	Leu	Leu	Leu
1				5					10					15	
Thr	Gly	Ile	Pro	Gly	Leu	Glu	Asp	Val	Gln	Ile	Trp	Phe	Cys	Ile	Pro
			20					25					30		
Leu	Cys	Val	Met	Tyr	Leu	Ile	Ala	Leu	Leu	Gly	Asn	Cys	Thr	Ile	Leu
	35						40					45			
Phe	Val	Ile	Arg	Thr	Thr	Ser	Leu	His	Glu	Pro	Gln	Tyr	Ile	Phe	
	50					55				60					

Leu	Ser	Met	Leu	Ala	Ala	Thr	Asp	Val	Gly	Leu	Ser	Val	Ser	Thr	Leu
65				70					75						80
Pro	Thr	Val	Leu	Asn	Val	Phe	Leu	Leu	Asn	His	Arg	Asp	Ile	Glu	Phe
			85						90					95	
His	Ser	Cys	Leu	Thr	Gln	Met	Phe	Phe	Ile	His	Thr	Phe	Ser	Ser	Met
			100					105					110		
Glu	Ser	Ala	Ile	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg	Phe	Val	Ala	Ile
		115					120					125			
Arg	Asn	Ser	Leu	His	Tyr	Thr	Ala	Val	Leu	Thr	Pro	Thr	Arg	Ile	Ile
	130					135					140				
Lys	Ile	Gly	Leu	Ala	Ala	Val	Val	Arg	Gly	Val	Met	Leu	Met	Ile	Pro
145				150						155					160
Leu	Pro	Ile	Leu	Leu	Lys	Arg	Leu	Pro	Phe	Cys	Lys	Gly	Val	Ile	Leu
			165						170					175	
Ser	His	Cys	Tyr	Cys	Tyr	His	Pro	Asp	Ile	Met	Lys	Leu	Ala	Cys	Gly
			180					185					190		
Pro	Val	Arg	Val	Asn	Ile	Ile	Tyr	Gly	Leu	Ser	Leu	Val	Leu	Cys	Ser
		195					200					205			
Phe	Gly	Val	Asp	Ser	Val	Phe	Ile	Val	Ile	Ser	Tyr	Ile	Leu	Ile	Leu
	210					215					220				
Lys	Thr	Val	Leu	Gly	Ile	Ala	Ser	Gly	Asp	Gly	Lys	Leu	Lys	Ala	Leu
225				230						235					240
Asn	Thr	Cys	Val	Ser	His	Ile	Phe	Thr	Val	Phe	Ile	Phe	Tyr	Val	Pro
			245						250					255	
Leu	Ile	Val	Leu	Ala	Leu	Ile	His	Arg	Phe	Gly	Thr	Phe	Ala	Ser	Pro
		260						265					270		
Leu	Leu	His	Val	Thr	Met	Ala	Asn	Leu	Phe	Leu	Phe	Leu	Thr	Pro	Val
	275						280					285			
Leu	Asn	Pro	Leu	Val	Tyr	Ser	Leu	Lys	Thr	Lys	Gln	Ile	Arg	Ser	Ala
	290					295					300				
Val	Cys	Lys	Ile	Phe	Lys	Val	Trp	Gly	Asn	Leu	Leu	Lys			
305					310					315					

<210> 1324  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 1324															
Met	Ala	Thr	Ser	Asn	Ser	Ser	Thr	Ile	Val	Ser	Ser	Thr	Phe	Tyr	Leu
1				5					10					15	
Thr	Gly	Ile	Pro	Gly	Tyr	Glu	Glu	Phe	His	His	Trp	Ile	Ser	Ile	Pro
			20					25					30		
Phe	Cys	Phe	Leu	Tyr	Leu	Val	Gly	Ile	Thr	Gly	Asn	Cys	Met	Ile	Leu
		35					40					45			
His	Ile	Val	Arg	Thr	Asp	Pro	Arg	Leu	His	Glu	Pro	Met	Tyr	Tyr	Phe
	50					55					60				
Leu	Ala	Met	Leu	Ser	Leu	Thr	Asp	Met	Ala	Met	Ser	Leu	Pro	Thr	Met
65					70					75					80
Met	Ser	Leu	Phe	Arg	Val	Leu	Trp	Ser	Ile	Ser	Arg	Glu	Ile	Gln	Phe
			85						90					95	
Asn	Ile	Cys	Val	Val	Gln	Met	Phe	Leu	Ile	His	Thr	Phe	Ser	Phe	Thr
			100					105					110		
Glu	Ser	Ser	Val	Leu	Leu	Ala	Met	Ala	Leu	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Cys	His	Pro	Leu	Arg	Tyr	Ala	Thr	Ile	Leu	Thr	Pro	Lys	Leu	Ile	Ala

130		135		140
Lys Ile Gly Thr Ala	Ala Leu Leu Arg Ser Ser	Ile Leu Ile Ile Pro		
145	150	155	160	
Leu Ile Ala Arg Leu	Ala Phe Phe Pro Phe Cys Gly Ser His Val Leu			
	165	170	175	
Ser His Ser Tyr Cys	Leu His Gln Asp Met Ile Arg Leu Ala Cys Ala			
	180	185	190	
Asp Ile Arg Phe Asn Val	Ile Tyr Gly Leu Val Leu Ile Thr Leu Leu			
	195	200	205	
Trp Gly Met Asp Ser Leu	Gly Ile Phe Val Ser Tyr Val Leu Ile Leu			
	210	215	220	
His Ser Val Leu Lys Ile	Ala Ser Arg Glu Gly Arg Leu Lys Ala Leu			
225	230	235	240	
Asn Thr Cys Ala Ser His	Ile Cys Ala Val Leu Ile Leu Tyr Val Pro			
	245	250	255	
Met Ile Gly Leu Ser Ile	Val His Arg Phe Ala Lys His Ser Ser Pro			
	260	265	270	
Leu Ile His Ile Phe Met	Ala His Ile Tyr Leu Leu Val Pro Pro Val			
	275	280	285	
Leu Asn Pro Ile Ile Tyr	Ser Val Lys Thr Lys Gln Ile Arg Glu Gly			
	290	295	300	
Ile Leu His Leu Leu Cys	Ser Pro Lys Ile Ser Ser Ile Thr Met			
305	310	315		

<210> 1325  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 1325

Met Pro His Leu Asn Ser Thr Ile Phe Arg Pro Ser Val Leu Thr Leu	
1 5 10 15	
Thr Gly Ile Pro Gly Leu Glu Ser Val Gln Phe Trp Ile Gly Ile Pro	
20 25 30	
Phe Cys Ile Met Tyr Ile Ile Ala Leu Leu Gly Asn Ser Leu Leu Leu	
35 40 45	
Val Val Ile Lys Val Glu Arg Ser Leu His Glu Pro Met Tyr Leu Phe	
50 55 60	
Leu Ala Met Leu Gly Ala Thr Asp Ile Ser Leu Ser Thr Ser Ile Leu	
65 70 75 80	
Pro Lys Met Leu Gly Ile Phe Trp Phe His Leu Ser Thr Ile Tyr Phe	
85 90 95	
Asp Ala Cys Leu Leu Gln Met Trp Leu Ile His Thr Phe Gln Gly Ile	
100 105 110	
Glu Ser Gly Ile Leu Phe Ala Met Ala Met Asp Arg Tyr Val Ala Ile	
115 120 125	
Cys Asp Pro Leu Arg His Ala Ser Ile Phe Thr Gln Arg Leu Leu Thr	
130 135 140	
Gln Ile Gly Val Gly Val Thr Leu Arg Ala Ala Leu Phe Val Ala Pro	
145 150 155 160	
Cys Leu Phe Leu Ile Lys Cys Arg Leu Lys Phe Tyr Trp Thr Thr Val	
165 170 175	
Val Ser His Ser Tyr Cys Glu His Met Ala Ile Val Lys Leu Ala Ala	
180 185 190	
Glu Asp Val His Val Asn Lys Ile Tyr Gly Leu Phe Val Ala Phe Ser	
195 200 205	

Ile	Leu	Gly	Leu	Asp	Ile	Ile	Phe	Ile	Thr	Leu	Ser	Tyr	Ile	Arg	Ile
210						215					220				
Phe	Ile	Thr	Val	Phe	Lys	Leu	Pro	Gln	Lys	Glu	Ala	Arg	Leu	Lys	Ala
225					230					235					240
Phe	Asn	Thr	Cys	Val	Ala	His	Ile	Cys	Val	Phe	Leu	Glu	Phe	Tyr	Leu
			245						250					255	
Leu	Ala	Phe	Phe	Ser	Phe	Phe	Thr	His	Arg	Phe	Gly	Tyr	His	Val	Pro
			260					265					270		
Ser	Tyr	Ile	His	Ile	Leu	Leu	Ser	Asn	Leu	Tyr	Leu	Leu	Val	Pro	Pro
		275					280					285			
Leu	Leu	Asn	Pro	Ile	Val	Tyr	Gly	Val	Lys	Thr	Lys	Gln	Ile	Arg	Asp
	290					295					300				
Gln	Val	Ser	Lys	Ile	Leu	Tyr	Cys	Asn	Tyr	Ser	Tyr				
305					310						315				

<210> 1326  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 1326

Met	Ser	Gly	Ala	Asn	Ser	Ser	Ser	Leu	Thr	Pro	Glu	Phe	Phe	Ile	Leu
1				5					10					15	
Asn	Gly	Val	Pro	Gly	Leu	Glu	Asp	Ala	His	Val	Trp	Ile	Ser	Leu	Pro
			20					25					30		
Phe	Cys	Phe	Met	Tyr	Met	Ile	Ala	Val	Val	Gly	Asn	Cys	Gly	Leu	Ile
		35					40					45			
Tyr	Leu	Ile	Gly	His	Glu	Glu	Ala	Leu	His	Arg	Pro	Met	Tyr	Tyr	Phe
	50					55					60				
Leu	Ala	Leu	Leu	Ser	Phe	Thr	Asp	Val	Thr	Leu	Cys	Thr	Thr	Thr	Val
65					70					75					80
Pro	Asn	Met	Leu	Cys	Ile	Phe	Trp	Phe	Asn	Phe	Lys	Lys	Ile	Gly	Phe
				85					90					95	
Asn	Ser	Cys	Leu	Val	Gln	Met	Phe	Phe	Val	His	Met	Leu	Thr	Gly	Met
			100					105					110		
Glu	Ser	Gly	Val	Leu	Met	Leu	Met	Ala	Leu	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Cys	Tyr	Pro	Leu	Arg	Tyr	Thr	Thr	Ile	Leu	Thr	Asn	Pro	Val	Ile	Ala
	130					135					140				
Lys	Ala	Gly	Leu	Ala	Thr	Phe	Leu	Arg	Ser	Val	Met	Leu	Ile	Phe	Pro
145					150					155					160
Phe	Thr	Leu	Leu	Thr	Lys	Arg	Leu	Pro	Tyr	Cys	Arg	Gly	Ser	Leu	Ile
				165					170					175	
Pro	His	Thr	Tyr	Cys	Asp	His	Met	Ser	Val	Ala	Lys	Val	Ser	Cys	Gly
			180					185					190		
Asn	Ala	Lys	Val	Asn	Ala	Ile	Tyr	Gly	Leu	Met	Val	Ala	Leu	Leu	Ile
		195					200					205			
Gly	Val	Phe	Asp	Ile	Cys	Cys	Ile	Ser	Val	Ser	Tyr	Thr	Met	Ile	Leu
	210					215					220				
Arg	Ala	Val	Val	Ser	Leu	Ser	Ser	Ala	Asp	Ala	Arg	His	Lys	Ala	Phe
225					230					235					240
Ser	Thr	Cys	Thr	Ser	His	Ile	Cys	Ala	Ile	Val	Ile	Thr	Tyr	Val	Pro
				245					250					255	
Ala	Phe	Phe	Thr	Phe	Phe	Thr	His	Arg	Phe	Gly	Gly	His	Thr	Ile	Pro
			260					265					270		
His	His	Val	His	Ile	Ile	Val	Ala	Asn	Leu	Tyr	Leu	Leu	Leu	Pro	Pro

	275		280		285										
Thr	Met	Asn	Pro	Ile	Val	Tyr	Gly	Val	Lys	Thr	Lys	Gln	Ile	Arg	Glu
	290					295					300				
Ser	Val	Ile	Lys	Phe	Leu	Leu	Gly	Asp	Lys	Met	Gly	Ile	Thr		
305					310					315					

<210> 1327  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1327

Met	Pro	Asn	Ile	Asn	Leu	Leu	Gln	Asn	Ala	Pro	Ser	Asn	Ile	Thr	Glu
1				5					10					15	
Ala	His	Pro	Leu	Ser	Phe	Leu	Leu	Leu	Gly	Ile	Pro	Gly	Leu	Glu	Ala
			20					25					30		
Thr	Gln	Phe	Trp	Leu	Gly	Phe	Pro	Phe	Cys	Val	Val	Tyr	Leu	Thr	Ala
		35					40					45			
Leu	Val	Gly	Asn	Leu	Ile	Ile	Leu	Phe	Val	Ile	Trp	Thr	Asp	Arg	Thr
	50				55					60					
Phe	His	Gln	Pro	Met	Phe	Tyr	Phe	Leu	Ala	Met	Leu	Ser	Val	Ile	Asp
65				70						75					80
Leu	Ser	Leu	Ser	Thr	Ala	Thr	Ile	Pro	Lys	Met	Leu	Gly	Ile	Phe	Trp
			85						90					95	
Phe	Ser	Leu	Gln	Glu	Leu	Cys	Phe	Ala	Cys	Cys	Val	Ala	Gln	Val	Phe
			100					105					110		
Phe	Ile	His	Phe	Phe	Thr	Val	Met	Glu	Ser	Ile	Val	Leu	Leu	Ala	Met
		115					120					125			
Gly	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu	Arg	Tyr	Thr	Thr
	130					135					140				
Ile	Leu	Thr	Asn	Arg	Ile	Ile	Val	Val	Ile	Ala	Val	Leu	Val	Val	Ile
145					150					155					160
Arg	Ser	Leu	Cys	Met	Ile	Val	Pro	Ile	Ile	Phe	Leu	Leu	Leu	Arg	Leu
			165						170					175	
Pro	Tyr	Cys	Gly	His	Arg	Ile	Ile	Pro	His	Thr	Tyr	Cys	Glu	His	Met
		180						185					190		
Gly	Val	Ala	Arg	Leu	Ala	Cys	Ala	Ser	Ile	Arg	Ala	Asn	Ile	Tyr	Phe
	195					200						205			
Gly	Leu	Gly	Asn	Ile	Ser	Ile	Leu	Phe	Leu	Asp	Val	Phe	Leu	Ile	Ile
	210					215					220				
Val	Ser	Tyr	Ala	Arg	Ile	Leu	Tyr	Ala	Val	Phe	His	Leu	Pro	Ser	Gln
225					230					235					240
Asp	Ala	Arg	Leu	Lys	Ala	Leu	Asn	Thr	Cys	Ser	Ser	His	Ile	Cys	Val
			245						250					255	
Ile	Leu	Ala	Phe	Phe	Gly	Pro	Ala	Leu	Phe	Ser	Phe	Leu	Thr	His	Arg
		260					265						270		
Phe	Gly	His	Asn	Ile	Pro	Gln	Tyr	Ile	His	Ile	Leu	Leu	Ala	Asn	Leu
	275						280						285		
Tyr	Val	Val	Ile	Pro	Pro	Ala	Leu	Asn	Pro	Val	Ile	Tyr	Gly	Ile	Arg
	290					295					300				
Thr	Lys	Gln	Ile	Gln	Gln	Arg	Val	Lys	Asn	Leu	Phe	Val			
305					310					315					

<210> 1328  
 <211> 319



<212> PRT  
 <213> Mus musculus

<400> 1328

Met	Ala	Pro	Ser	Asn	Ser	Ser	Val	Ser	Val	Ser	Ser	Thr	Phe	Tyr	Leu
1				5					10					15	
Thr	Gly	Ile	Pro	Gly	Tyr	Glu	Glu	Phe	His	His	Trp	Ile	Ser	Ile	Pro
			20					25					30		
Phe	Cys	Leu	Ile	Tyr	Ile	Ile	Gly	Val	Thr	Gly	Asn	Cys	Ser	Ile	Leu
		35					40					45			
His	Ile	Val	Arg	Thr	Asp	Pro	Lys	Leu	His	Glu	Pro	Met	Tyr	Tyr	Phe
	50					55					60				
Leu	Ala	Met	Leu	Ser	Leu	Thr	Asp	Met	Ala	Met	Ser	Leu	Pro	Ala	Met
65					70					75					80
Val	Ser	Leu	Phe	Arg	Val	Leu	Trp	Ser	Ile	Ser	Arg	Glu	Ile	Gln	Phe
				85					90					95	
Asn	Ile	Cys	Val	Val	Gln	Met	Phe	Leu	Ile	His	Thr	Phe	Ser	Phe	Thr
			100					105						110	
Glu	Ser	Ser	Val	Leu	Leu	Ala	Met	Ala	Leu	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Cys	His	Pro	Leu	Arg	Tyr	Ala	Thr	Ile	Leu	Thr	Pro	Lys	Leu	Ile	Ala
	130					135					140				
Lys	Ile	Gly	Ile	Ala	Ala	Leu	Leu	Arg	Ser	Ala	Ile	Pro	Leu	Ile	Pro
145					150					155					160
Leu	Leu	Val	Arg	Leu	Ala	Phe	Phe	Ser	Phe	Cys	Arg	Ser	His	Val	Leu
				165					170					175	
Ser	His	Ser	Tyr	Cys	Leu	His	Gln	Asp	Ile	Ile	Arg	Leu	Ala	Cys	Ala
			180					185					190		
Asp	Ile	Arg	Phe	Asn	Val	Ile	Tyr	Gly	Met	Val	Val	Ile	Leu	Met	Leu
	195						200					205			
Trp	Gly	Met	Asp	Ser	Leu	Gly	Ile	Leu	Ile	Thr	Tyr	Val	Phe	Ile	Leu
	210					215					220				
His	Ser	Val	Leu	Arg	Ile	Ala	Ser	Arg	Glu	Gly	Arg	Leu	Lys	Ala	Leu
225					230					235					240
Asn	Thr	Cys	Ala	Ser	His	Ile	Cys	Ala	Val	Leu	Ile	Leu	Tyr	Val	Pro
				245					250					255	
Met	Ile	Gly	Leu	Ser	Ile	Val	His	Arg	Phe	Ala	Lys	His	Ser	Ser	Pro
		260						265					270		
Phe	Val	His	Ile	Phe	Met	Ala	His	Ile	Tyr	Leu	Met	Val	Pro	Pro	Val
	275						280					285			
Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Val	Lys	Thr	Lys	Gln	Ile	Arg	Gln	Gly
	290					295					300				
Ile	Phe	His	Leu	Ile	Cys	Pro	His	Lys	Ile	Asn	Ser	Ser	Ala	Met	
305					310					315					

<210> 1329  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1329

Met	Val	Gly	Phe	Asn	Ser	Asn	Glu	Ser	Ser	Ala	Thr	Tyr	Phe	Ile	Leu
1				5					10					15	
Ile	Gly	Leu	Pro	Gly	Leu	Glu	Glu	Val	Gln	Phe	Trp	Leu	Ala	Phe	Pro
			20					25					30		
Leu	Cys	Ser	Leu	Tyr	Leu	Ile	Ala	Val	Leu	Gly	Asn	Leu	Thr	Ile	Ile



Glu	Ser	Ser	Val	Leu	Leu	Val	Met	Ala	Phe	Asp	Arg	Phe	Ile	Ala	Ile
	115						120					125			
Cys	Asn	Pro	Leu	Arg	Tyr	Ala	Met	Ile	Leu	Thr	Asn	Ser	Arg	Ile	Ile
	130					135					140				
Ala	Val	Gly	Phe	Ala	Ile	Ile	Ile	Arg	Gly	Thr	Thr	Ala	Leu	Val	Pro
145					150					155					160
Leu	Leu	Leu	Leu	Leu	Lys	Arg	Leu	Ser	Phe	Cys	Arg	Ser	His	Val	Leu
				165					170					175	
His	His	Ser	Tyr	Cys	Phe	His	Pro	Asp	Val	Met	Lys	Leu	Ser	Cys	Ser
		180						185					190		
Asp	Thr	Arg	Ile	Asn	Ser	Ala	Phe	Gly	Leu	Ala	Ile	Val	Ile	Ser	Thr
	195						200					205			
Ala	Gly	Leu	Asp	Ser	Val	Leu	Ile	Leu	Leu	Ser	Tyr	Val	Leu	Ile	Ile
	210					215					220				
His	Ser	Val	Leu	Cys	Ile	Ala	Ser	Lys	Glu	Glu	Arg	Lys	Lys	Ala	Phe
225					230					235					240
Gly	Thr	Cys	Val	Ser	His	Leu	Ser	Ala	Val	Ala	Ile	Phe	Tyr	Ile	Pro
				245					250					255	
Met	Ile	Ser	Leu	Ser	Leu	Val	His	Arg	Phe	Gly	Lys	His	Ala	Pro	Pro
		260						265					270		
Phe	Val	His	Thr	Leu	Ile	Ala	Asn	Val	Tyr	Leu	Leu	Ile	Pro	Pro	Val
	275						280					285			
Met	Asn	Pro	Ile	Ile	Tyr	Ser	Val	Lys	Thr	Lys	Gln	Ile	Arg	Lys	Ala
	290					295					300				
Met	Leu	Lys	Val	Phe	Phe	Val	Lys	Pro	Ser						
305					310										

<210> 1331  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 1331

Met	Leu	Ile	Leu	Asn	Asn	Thr	His	Ser	Gln	Leu	Pro	Thr	Phe	Leu	Leu
1				5					10					15	
Thr	Gly	Ile	Pro	Gly	Leu	Arg	Ala	Ala	Gln	Val	Trp	Ile	Ser	Ile	Pro
			20					25					30		
Phe	Cys	Leu	Leu	Tyr	Val	Ile	Ala	Leu	Ser	Gly	Asn	Ser	Met	Ile	Leu
	35						40					45			
Leu	Val	Ile	Val	Arg	Glu	Gln	Ser	Leu	His	Glu	Pro	Met	Tyr	Tyr	Phe
	50					55					60				
Leu	Ser	Met	Leu	Ser	Ile	Thr	Asp	Leu	Ser	Leu	Ser	Leu	Cys	Thr	Leu
65					70					75					80
Ser	Thr	Thr	Leu	Gly	Val	Leu	Trp	Phe	Glu	Ala	Arg	Glu	Ile	Asn	Leu
				85					90					95	
Asn	Ala	Cys	Ile	Ala	Gln	Met	Phe	Phe	Leu	His	Gly	Phe	Thr	Phe	Met
		100						105					110		
Glu	Ser	Gly	Val	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg	Phe	Val	Ala	Ile
	115						120					125			
Cys	Asp	Pro	Leu	Arg	Tyr	Thr	Thr	Ile	Leu	Thr	Asn	Ala	Arg	Ile	Ala
	130					135					140				
Gln	Ile	Gly	Thr	Ile	Val	Leu	Ile	Arg	Asn	Val	Ala	Val	Met	Leu	Pro
145					150					155					160
Val	Val	Leu	Phe	Val	Lys	Arg	Leu	Ser	Phe	Cys	Ser	Ser	Leu	Val	Leu
				165					170					175	
Ser	His	Ser	Tyr	Cys	Tyr	His	Val	Asp	Val	Ile	Gln	Leu	Ser	Cys	Thr



Ile	Gly	Leu	Ser	Met	Ile	Arg	Arg	Tyr	Gly	Gln	Asn	Ala	Ser	Pro	Ile
			260					265					270		
Val	His	Val	Ile	Met	Ala	Asn	Val	Tyr	Leu	Leu	Val	Pro	Pro	Leu	Met
		275					280					285			
Asn	Pro	Ile	Val	Tyr	Ser	Val	Lys	Thr	Lys	Gln	Ile	Arg	Asp	Arg	Ile
	290					295					300				
Leu	Arg	Lys	Leu	Lys	Lys	Gln	Lys	Val							
305					310										

<210> 1333  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 1333

Met	Ala	Asp	His	Asn	His	Ser	Gln	Ser	Gln	His	Leu	Tyr	Phe	Ile	Leu
1				5					10					15	
Thr	Gly	Ile	Pro	Gly	Leu	Glu	Gln	Lys	Tyr	Tyr	Trp	Met	Ala	Phe	Pro
			20					25					30		
Leu	Gly	Ala	Ile	Tyr	Val	Ile	Ala	Leu	Phe	Gly	Asn	Gly	Val	Ile	Ile
		35					40					45			
Ser	Thr	Ile	Lys	Ser	Glu	Ser	Ser	Leu	His	Ile	Pro	Met	Tyr	Tyr	Phe
	50					55					60				
Leu	Cys	Met	Leu	Ala	Phe	Ala	Asp	Met	Gly	Leu	Thr	Leu	Cys	Thr	Leu
65					70					75					80
Pro	Ser	Met	Leu	Gly	Ile	Phe	Trp	Phe	Asn	Tyr	Lys	Phe	Ile	Thr	Phe
				85					90					95	
Asp	Gly	Cys	Leu	Val	Gln	Met	Tyr	Phe	Ile	His	Thr	Phe	Ser	Ala	Ile
			100					105					110		
Glu	Ser	Gly	Val	Leu	Val	Ala	Met	Ala	Ile	Asp	Arg	Val	Ile	Ala	Ile
		115					120					125			
Trp	Ser	Pro	Leu	Arg	Tyr	Gly	Thr	Ile	Leu	Thr	Asn	Gly	Val	Val	Cys
	130					135					140				
Lys	Ile	Gly	Met	Leu	Ile	Leu	Ser	Arg	Ala	Val	Cys	Val	Val	Phe	Pro
145					150					155					160
Val	Pro	Phe	Leu	Ile	Lys	Arg	Leu	Pro	Phe	Tyr	Arg	Ser	Asn	Ile	Leu
			165						170					175	
Ser	His	Ser	Phe	Cys	Leu	His	Gln	Asp	Val	Met	Arg	Leu	Ala	Cys	Ala
		180						185					190		
Ser	Thr	Arg	Val	Asn	Ser	Leu	Tyr	Gly	Leu	Ile	Ala	Val	Ile	Phe	Thr
		195				200						205			
Lys	Gly	Ser	Asp	Ser	Leu	Ser	Ile	Leu	Ile	Ser	Tyr	Val	Phe	Ile	Leu
	210					215					220				
Arg	Thr	Val	Met	Ala	Ile	Ala	Ser	Gly	Glu	Gly	Arg	Leu	Lys	Ala	Leu
225					230					235					240
Asn	Thr	Cys	Val	Ser	His	Ile	Cys	Ala	Val	Leu	Ile	Phe	Tyr	Val	Pro
			245					250						255	
Leu	Ile	Gly	Val	Ser	Val	Ile	His	Arg	Phe	Gly	Lys	His	Leu	Ser	Pro
		260						265					270		
Leu	Thr	His	Ala	Leu	Met	Ala	Asn	Ala	Tyr	Leu	Leu	Val	Pro	Pro	Val
		275					280						285		
Leu	Asn	Pro	Ile	Val	Tyr	Thr	Val	Lys	Thr	Lys	Glu	Ile	Arg	Lys	Lys
	290					295					300				
Ile	Ile	Gln	Ile	Phe	Ile	Arg	Thr	Lys	Ile	Thr	Thr	Glu	Gly		
305					310						315				

<210> 1334  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1334  
 Met Val Ala Ser Ser Asn Ser Ser Ser His Pro Leu Phe Phe Met Leu  
 1 5 10 15  
 Leu Gly Ile Pro Gly Leu Glu Asn Tyr Gln Phe Trp Ile Ala Phe Pro  
 20 25 30  
 Phe Cys Val Met Tyr Ile Val Ala Leu Thr Gly Asn Ile Thr Ile Leu  
 35 40 45  
 Tyr Ile Ile Arg Ile Asp His Thr Leu His Glu Pro Met Tyr Leu Phe  
 50 55 60  
 Leu Ala Leu Leu Ala Ile Thr Asp Leu Val Leu Ser Ser Ser Thr Gln  
 65 70 75 80  
 Pro Lys Met Leu Ala Ile Leu Trp Phe His Ser His Glu Ile Glu Tyr  
 85 90 95  
 Asn Ala Cys Leu Ile Gln Val Phe Phe Ile His Ala Phe Ser Ser Val  
 100 105 110  
 Glu Ser Gly Val Leu Met Thr Met Ala Leu Asp Arg Tyr Val Ala Ile  
 115 120 125  
 Cys Phe Pro Leu Arg His Ser Ser Ile Leu Thr Thr Ser Val Val Ile  
 130 135 140  
 Lys Leu Gly Ala Ala Val Met Val Arg Gly Leu Leu Trp Val Ser Pro  
 145 150 155 160  
 Phe Cys Phe Met Val Ser Arg Met Pro Phe Cys Pro Asn Lys Val Ile  
 165 170 175  
 Pro Gln Ser Tyr Cys Glu His Met Ala Val Leu Lys Leu Val Cys Ala  
 180 185 190  
 Asp Thr Arg Val Asn Arg Gly Tyr Gly Leu Phe Val Ala Phe Ser Val  
 195 200 205  
 Val Gly Phe Asp Ile Ile Val Ile Ser Val Ser Tyr Val Met Ile Leu  
 210 215 220  
 Arg Ala Val Leu Arg Leu Pro Ser Gly Glu Ala Arg Leu Lys Ala Phe  
 225 230 235 240  
 Gly Thr Cys Ala Ser His Val Cys Val Ile Leu Ala Phe Tyr Ile Pro  
 245 250 255  
 Ala Leu Phe Thr Phe Leu Thr His Arg Phe Gly His His Val Pro Arg  
 260 265 270  
 Val Val His Ile Met Phe Ala Asn Phe Tyr Leu Leu Val Pro Pro Met  
 275 280 285  
 Leu Asn Pro Ile Ile Tyr Gly Val Arg Thr Lys Gln Ile Arg Asp Arg  
 290 295 300  
 Val Ile Arg Gly Phe Arg Arg Lys Asp Pro  
 305 310

<210> 1335  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 1335  
 Met Leu Gln Met Gln Asp Asn Thr Glu Phe Leu Ser Asn Phe Thr Ser  
 1 5 10 15

Lys Leu Ser Thr Phe Leu Leu Thr Gly Ile Pro Gly Leu Glu Ser Ala  
 20 25 30  
 His Gly Trp Ile Ser Ile Pro Phe Cys Cys Leu Tyr Ala Thr Ala Leu  
 35 40 45  
 Ser Gly Asn Ser Met Ile Leu Phe Ile Ile Val Thr Gln His Ser Leu  
 50 55 60  
 His Glu Pro Met Tyr Tyr Phe Leu Ser Val Leu Ser Ala Thr Asp Leu  
 65 70 75 80  
 Gly Leu Thr Phe Ser Thr Met Ser Thr Thr Leu Arg Ile Leu Trp Phe  
 85 90 95  
 Gln Ala Asn Glu Ile Ser Leu Asp Leu Cys Ile Val Gln Met Phe Phe  
 100 105 110  
 Leu His Gly Phe Thr Cys Thr Glu Ser Gly Val Leu Val Ala Met Ala  
 115 120 125  
 Phe Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu Arg Tyr Thr Met Ile  
 130 135 140  
 Leu Thr Asn Ser Arg Ile Ile Gln Ile Gly Phe Leu Val Ile Met Arg  
 145 150 155 160  
 Thr Leu Leu Leu Ile Ile Pro Leu Leu Leu Leu Lys Pro Val Ser  
 165 170 175  
 Phe Cys Lys Arg Asn Thr Leu Ser His Ser Tyr Cys Tyr Tyr Pro Asp  
 180 185 190  
 Val Ile Lys Leu Ala Cys Ser Asp Thr Arg Ala Asn Asn Ile Cys Gly  
 195 200 205  
 Leu Val Asp Leu Ile Leu Thr Thr Gly Leu Asp Ile Pro Cys Ile Val  
 210 215 220  
 Leu Ser Tyr Ile Leu Ile Ile Arg Ser Val Leu Asn Ile Ala Ser Ser  
 225 230 235 240  
 Glu Glu Arg His Lys Ala Phe Ser Thr Cys Val Ser His Ile Ala Ala  
 245 250 255  
 Val Ala Val Phe Tyr Ile Pro Met Phe Ser Leu Ser Leu Val His Arg  
 260 265 270  
 Tyr Gly Arg Ser Val Pro Lys Val Val His Thr Met Met Ala Asn Val  
 275 280 285  
 Tyr Leu Leu Leu Pro Pro Val Leu Asn Pro Ile Ile Tyr Ser Val Lys  
 290 295 300  
 Thr Lys Gln Ile Arg Lys Ala Ile Leu Ser Leu Leu Phe Ala Lys  
 305 310 315

<210> 1336  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 1336  
 Met Ser Thr Leu Glu Asn Thr Thr Ala Ser Ser Ile Ile Phe Leu Leu  
 1 5 10 15  
 Thr Gly Met Pro Gly Leu Glu Ala Phe His Thr Trp Ile Ser Ile Pro  
 20 25 30  
 Phe Cys Phe Leu Tyr Ala Thr Ala Leu Ser Gly Asn Ser Leu Ile Leu  
 35 40 45  
 Phe Ala Ile Ile Thr Gln Pro Ser Leu His Glu Pro Thr Tyr Tyr Phe  
 50 55 60  
 Leu Ser Met Leu Ser Thr Thr Asp Leu Gly Leu Ser Ile Ser Thr Leu  
 65 70 75 80  
 Ala Thr Met Leu Gly Ile Phe Trp Leu Asn Ala Arg Glu Ile Ser Phe

				85					90				95				
Asn	Ala	Cys	Leu	Ser	Gln	Met	Phe	Phe	Ile	Gln	Leu	Phe	Thr	Val	Met		
			100					105					110				
Glu	Ser	Ser	Val	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile		
		115					120					125					
Ser	Asn	Pro	Leu	Arg	Tyr	Ala	Ser	Val	Leu	Thr	Asp	Val	Lys	Ile	Val		
	130					135					140						
Val	Ile	Gly	Val	Ala	Ile	Ile	Thr	Arg	Gly	Thr	Leu	Ile	Gln	Thr	Pro		
145					150					155					160		
Leu	Ala	Val	Leu	Leu	Lys	Arg	Leu	Ser	Phe	Cys	Ser	Ser	His	Val	Leu		
			165						170					175			
His	His	Ser	Tyr	Cys	Phe	His	Pro	Asp	Ile	Met	Lys	Leu	Ser	Cys	Thr		
		180						185					190				
Asp	Thr	Arg	Ile	Asn	Ser	Ala	Val	Gly	Leu	Thr	Ala	Leu	Ile	Ser	Thr		
	195					200						205					
Ala	Gly	Val	Asp	Ser	Val	Phe	Ile	Ile	Leu	Ser	Tyr	Val	Leu	Ile	Ile		
	210					215					220						
Arg	Thr	Val	Leu	Ser	Ile	Ala	Ser	Pro	Glu	Glu	Arg	Lys	Lys	Ala	Phe		
225					230					235					240		
Ser	Thr	Cys	Ile	Ser	His	Ile	Gly	Ala	Val	Ala	Val	Phe	Tyr	Ile	Pro		
			245					250						255			
Leu	Ile	Ser	Leu	Ser	Phe	Val	His	Arg	Phe	Gly	Lys	Arg	Ala	Pro	Pro		
	260							265					270				
Tyr	Val	His	Thr	Leu	Ile	Ala	Asn	Ala	Tyr	Leu	Leu	Ile	Pro	Pro	Val		
	275					280						285					
Met	Asn	Pro	Ile	Ile	Tyr	Ser	Val	Lys	Thr	Lys	Gln	Ile	Arg	Lys	Ala		
	290					295					300						
Val	Leu	Lys	Val	Leu	His	Ser	Ser	Met	Thr	Lys	Ser						
305					310					315							

<210> 1337  
 <211> 322  
 <212> PRT  
 <213> Mus musculus

<400> 1337

Met	Ser	Pro	Leu	Ser	Ala	Gln	Asp	Thr	Ser	Asn	Ile	Ser	Ser	Leu	Met		
1				5					10					15			
Ala	Pro	Thr	Phe	Leu	Leu	Val	Gly	Leu	Pro	Gly	Leu	Glu	Ala	Ala	Pro		
		20						25					30				
Ser	Trp	Trp	Ser	Val	Pro	Leu	Ile	Thr	Ile	Tyr	Leu	Phe	Ser	Ala	Phe		
	35					40						45					
Gly	Asn	Gly	Thr	Ile	Leu	Trp	Ile	Ile	Ala	Leu	Glu	Pro	Thr	Leu	His		
	50				55						60						
Arg	Pro	Met	Tyr	Phe	Phe	Leu	Phe	Leu	Leu	Ser	Val	Ser	Asp	Val	Gly		
65					70					75					80		
Leu	Ala	Thr	Val	Leu	Met	Pro	Thr	Leu	Leu	Gly	Leu	Ala	Phe	Ala	Asp		
			85						90					95			
Ala	His	Thr	Val	Pro	Ala	Ser	Ala	Cys	Leu	Leu	Gln	Met	Phe	Phe	Ile		
		100						105					110				
His	Val	Phe	Ser	Val	Met	Glu	Ser	Ser	Val	Leu	Leu	Ala	Met	Ala	Phe		
	115						120					125					
Asp	Arg	Ala	Val	Ala	Ile	Cys	Arg	Pro	Leu	His	Tyr	Pro	Val	Leu	Leu		
	130					135					140						
Thr	Asn	Gly	Val	Ile	Arg	Lys	Ile	Ala	Val	Ala	Ile	Ala	Phe	Arg	Cys		
145					150					155					160		



Leu Ser Leu His Leu Pro Leu Pro Ile Leu Leu Ala Arg Met Pro Tyr  
 165 170 175  
 Cys Arg Pro Gln Val Leu Thr His Ser Tyr Cys Leu His Pro Asp Met  
 180 185 190  
 Ala Arg Leu Ala Cys Pro Glu Ala Trp Gly Ala Val Tyr Ser Leu Val  
 195 200 205  
 Val Val Leu Ser Ala Met Ala Leu Asp Pro Leu Leu Ile Phe Phe Ser  
 210 215 220  
 Tyr Gly Leu Ile Gly Arg Ala Leu Gln Gly Val Gly Ser Ala Glu Asp  
 225 230 235 240  
 Arg Trp Lys Ala Gly Gln Thr Cys Ala Ala His Leu Ser Ala Val Leu  
 245 250 255  
 Leu Phe Tyr Ile Pro Met Ile Leu Leu Ala Leu Ile Asp Arg Phe Lys  
 260 265 270  
 Leu Pro Leu Pro Pro Pro Ala His Thr Leu Leu Ser Tyr Val His Phe  
 275 280 285  
 Leu Leu Pro Pro Leu Met Asn Pro Val Leu Tyr Ser Val Lys Met Lys  
 290 295 300  
 Glu Ile Arg Glu Lys Ile Leu Lys Arg Leu Leu Pro Thr Lys Val Gly  
 305 310 315 320  
 Cys Ala

<210> 1338  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 1338  
 Met Gly Ala Glu Asn Asn Glu Ser Leu Asp Leu Leu Ser Ile Phe Leu  
 1 5 10 15  
 Thr Gly Ile Pro Gly Leu Glu Ala Gln His Gly Trp Leu Ser Ile Pro  
 20 25 30  
 Phe Phe Ile Met Tyr Ile Val Ala Ile Val Gly Asn Ser Leu Ile Met  
 35 40 45  
 Ile Ala Val Gln Gln Glu Ser Ala Leu His Glu Pro Met Tyr Leu Phe  
 50 55 60  
 Leu Ser Met Leu Ala Ile Thr Glu Val Gly Val Ser Val Ser Thr Leu  
 65 70 75 80  
 Pro Thr Val Met Gly Ile Leu Trp Phe Asn Ala Tyr Arg Ile Asp Phe  
 85 90 95  
 Asp Gly Cys Leu Ala Gln Met Phe Phe Ile His Thr Phe Ser Gly Met  
 100 105 110  
 Glu Ser Gly Val Leu Leu Ala Met Ser Tyr Asp Arg Phe Val Ala Ile  
 115 120 125  
 Tyr Asn Pro Leu Arg Tyr Thr Ala Ile Leu Thr Leu Pro Arg Ile Ile  
 130 135 140  
 Ser Met Gly Leu Gly Ile Thr Leu Lys Ser Val Ala Leu Met Ala Pro  
 145 150 155 160  
 Leu Pro Ile Leu Leu Lys Gln Leu Pro Tyr Cys His Ile Asn Ile Leu  
 165 170 175  
 Ser His Ser Tyr Cys Leu His Ser Asp Leu Ile Gln Leu Pro Cys Ala  
 180 185 190  
 Asp Thr Arg Leu Asn Ser Ile Leu Gly Leu Ala Ile Val Leu Ala Thr  
 195 200 205  
 Phe Gly Leu Asp Ser Leu Leu Ile Val Val Ser Tyr Gly Leu Ile Leu

210		215		220
Tyr Thr Val Met Gly Ile	Ala Ser Gly Glu Gly	Arg Lys Lys Thr Leu		
225	230	235	240	
Asn Thr Cys Val Ser His	Ile Cys Ala Val Leu	Ile Tyr Tyr Val Pro		
	245	250	255	
Met Ile Gly Val Ser Val	Met His Arg Val Ala	Lys His Ala Ser Pro		
	260	265	270	
Val Val His Thr Leu Met	Ser Ser Ile Tyr Leu Phe	Val Pro Pro Val		
	275	280	285	
Leu Asn Pro Ile Ile Tyr	Ser Val Lys Thr Arg	Pro Ile Gln Gln Gly		
	290	295	300	
Ile Ala Asn Leu Phe Ser	Cys Lys Lys Gly Ser	Ile		
305	310	315		

<210> 1339  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1339

Met Val Gly Asn Ile Thr His Gln Gln Ile Ala Ser Phe Phe Leu Val	
1 5 10 15	
Gly Ile Pro Gly Leu Glu Asn Val His Cys Trp Ile Gly Ile Ser Val	
20 25 30	
Cys Leu Leu Phe Val Leu Thr Leu Leu Gly Asn Ser Ile Val Ile Ala	
35 40 45	
Thr Ile Lys Leu Glu Pro Ser Leu His Gln Pro Met Tyr Phe Phe Leu	
50 55 60	
Cys Met Leu Ala Met Asn Asp Met Cys Leu Ser Ser Ser Ala Ala Leu	
65 70 75 80	
Lys Met Leu Gly Ile Phe Trp Phe Asp Ala His Trp Ile Asn Phe Asp	
85 90 95	
Ala Cys Leu Thr Gln Met Tyr Phe Ile His Thr Leu Cys Ile Met Glu	
100 105 110	
Ser Ala Ile Leu Val Ala Met Ala Phe Asp Arg Phe Val Ala Ile Cys	
115 120 125	
Ile Pro Leu His Tyr Ala Ser Ile Leu Thr Thr Ser Met Val Ile Lys	
130 135 140	
Leu Gly Leu Val Gly Leu Met Arg Cys Val Leu Met Val Leu Pro Cys	
145 150 155 160	
Pro Ile Leu Ile Lys Arg Leu Pro Tyr Tyr Thr Lys Tyr Val Ile Pro	
165 170 175	
His Thr Tyr Cys Glu His Met Ala Val Val Lys Leu Ala Ser Ala Asn	
180 185 190	
Thr Leu Ile Asn Arg Ala Tyr Gly Ile Ser Val Ala Leu Ser Val Ile	
195 200 205	
Thr Val Asp Leu Gly Leu Ile Ala Thr Ser Tyr Val Lys Ile Leu Gln	
210 215 220	
Ser Val Phe Arg Leu Ser Ser Gln Asn Ala Arg Ser Lys Ala Leu Gly	
225 230 235 240	
Thr Cys Ala Ala His Val Cys Thr Ile Leu Val Ser Tyr Ile Pro Ala	
245 250 255	
Leu Phe Ser Phe Leu Ser His Arg Ile Gly Lys Lys Val Pro Pro Ser	
260 265 270	
Val His Ile Ile Phe Ala Ser Met Tyr Leu Leu Val Pro Ser Ala Val	
275 280 285	

Asn	Pro	Val	Val	Tyr	Gly	Val	Lys	Thr	Lys	Gln	Ile	Arg	Asp	Arg	Val
290						295					300				
Ile	Asp	Leu	Phe	Phe	Thr	His	Lys	Lys	Phe	Ser	Glu	Lys			
305					310					315					

<210> 1340  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

Met	Ser	Tyr	Ser	Asn	His	Ser	Ser	Thr	Ser	Phe	Phe	Leu	Thr	Gly	Leu
1				5					10					15	
Pro	Gly	Leu	Glu	Thr	Val	Tyr	Leu	Trp	Leu	Ser	Ile	Pro	Leu	Cys	Thr
			20					25					30		
Met	Tyr	Ile	Ala	Ser	Leu	Ala	Gly	Asn	Gly	Leu	Ile	Leu	Trp	Val	Val
		35					40					45			
Lys	Ser	Glu	Pro	Ser	Leu	His	Gln	Pro	Met	Tyr	Tyr	Phe	Leu	Ser	Met
	50					55					60				
Leu	Ala	Val	Thr	Asp	Leu	Gly	Leu	Ser	Val	Ser	Thr	Leu	Pro	Thr	Met
65					70					75					80
Leu	Thr	Ile	Tyr	Met	Gly	Val	Ser	Glu	Val	Ala	Leu	Asp	Met	Cys	
			85					90					95		
Leu	Ala	Gln	Leu	Phe	Phe	Ile	His	Thr	Phe	Ser	Ile	Met	Glu	Ser	Ser
			100					105					110		
Val	Leu	Leu	Thr	Met	Ala	Phe	Asp	Arg	Val	Val	Ala	Ile	Ser	Ser	Pro
		115					120					125			
Leu	His	Tyr	Ala	Thr	Ile	Leu	Thr	Asn	Pro	Arg	Val	Ala	Ser	Leu	Gly
	130					135					140				
Met	Val	Ile	Leu	Val	Arg	Ser	Ile	Gly	Leu	His	Ile	Pro	Ala	Pro	Ile
145					150					155					160
Met	Leu	Lys	Lys	Leu	Pro	Tyr	Cys	Gln	Lys	Arg	His	Leu	Ser	His	Ser
			165					170					175		
Tyr	Cys	Leu	His	Pro	Asp	Val	Met	Lys	Leu	Ala	Cys	Thr	Asp	Thr	Arg
		180						185					190		
Ile	Asn	Ser	Ala	Tyr	Gly	Leu	Phe	Val	Val	Leu	Ser	Thr	Leu	Gly	Val
	195					200						205			
Asp	Ser	Val	Leu	Ile	Val	Leu	Ser	Tyr	Gly	Leu	Ile	Leu	Tyr	Thr	Val
	210					215					220				
Leu	Ser	Ile	Ala	Ser	Lys	Thr	Glu	Arg	Leu	Lys	Ala	Leu	Asn	Thr	Cys
225					230					235					240
Val	Ser	His	Ile	Cys	Ser	Val	Leu	Leu	Phe	Tyr	Thr	Pro	Met	Ile	Gly
			245						250					255	
Leu	Ser	Met	Ile	His	Arg	Phe	Gly	Lys	Trp	Ala	Ser	Pro	Cys	Ser	Arg
		260						265					270		
Val	Leu	Leu	Ser	Tyr	Leu	His	Phe	Leu	Thr	Pro	Pro	Val	Leu	Asn	Pro
		275					280						285		
Val	Val	Tyr	Thr	Ile	Lys	Thr	Lys	Gln	Ile	Arg	Gln	Arg	Ile	Trp	Cys
	290					295					300				
Ile	Phe	Arg	Cys	Gly	Gly	Arg	Ser	Ile	Gly	His	Ile	Gln	Gly	His	
305					310					315					

<210> 1341  
 <211> 315  
 <212> PRT

<213> Mus musculus

<400> 1341

Met	Ala	Ile	Ser	Lys	His	Ser	Asn	Ala	Ser	Ser	Phe	Phe	Phe	Ile	Leu
1				5					10					15	
-Met	Asp	Leu	Pro	Gly	Leu	Glu	Thr	Ser	His	Cys	Trp	Thr	Ala	Ile	Pro
			20					25					30		
Ile	Cys	Leu	Ile	Tyr	Val	Leu	Ser	Val	Leu	Gly	Asn	Ile	Thr	Ile	Met
		35					40					45			
His	Ile	Val	Lys	Ser	Val	Pro	Ser	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe
	50					55					60				
Leu	Ser	Met	Leu	Ser	Met	Ala	Asp	Leu	Gly	Leu	Ser	Ala	Ser	Thr	Leu
65					70					75					80
Pro	Ser	Met	Val	Ala	Val	Phe	Leu	Leu	Gly	Gln	Arg	Met	Ile	Gly	Ala
				85					90					95	
Val	Ala	Cys	Phe	Met	Gln	Leu	Phe	Phe	Ile	His	Thr	Phe	Ser	Val	Ile
			100					105					110		
Glu	Ser	Ala	Val	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg	Cys	Val	Ala	Ile
		115					120					125			
Arg	Glu	Pro	Leu	Arg	Tyr	Ala	Thr	Ile	Leu	Thr	Thr	Arg	Arg	Ile	Gly
	130					135					140				
Ala	Ile	Gly	Leu	Ala	Val	Val	Ile	Arg	Ser	Ala	Ala	Leu	His	Leu	Pro
145					150					155					160
Leu	Pro	Val	Leu	Leu	Gly	Arg	Leu	Thr	Phe	Gln	Pro	Val	Ser	Ala	Leu
				165					170					175	
Ser	His	Ser	Tyr	Cys	Val	His	Pro	Asp	Val	Leu	Arg	Leu	Ser	Cys	Ser
			180					185					190		
Ser	Thr	Leu	Val	Asn	Ser	Gly	Phe	Gly	Leu	Phe	Val	Met	Leu	Ser	Thr
		195					200					205			
Leu	Gly	Met	Asp	Ala	Val	Leu	Ile	Leu	Leu	Ser	Tyr	Val	Leu	Ile	Leu
	210					215					220				
Lys	Thr	Val	Leu	Ser	Ile	Ala	Ser	Asn	Ala	Glu	Arg	Leu	Lys	Ala	Phe
225					230					235					240
Asn	Thr	Cys	Ile	Ser	His	Ile	Cys	Ala	Val	Leu	Leu	Phe	Tyr	Thr	Pro
				245					250					255	
Leu	Val	Ser	Leu	Ser	Met	Ile	His	Arg	Phe	Gly	Lys	Lys	Lys	Leu	Pro
		260						265					270		
Ala	Gln	Val	Tyr	Met	Leu	Leu	Ser	Tyr	Leu	His	Phe	Leu	Met	Pro	Pro
	275						280					285			
Met	Leu	Asn	Pro	Ile	Val	Tyr	Ser	Val	Lys	Thr	Lys	Glu	Ile	Arg	Val
	290					295					300				
Arg	Ile	Leu	Lys	Met	Leu	His	Pro	Lys	Lys	His					
305					310					315					

<210> 1342

<211> 313

<212> PRT

<213> Mus musculus

<400> 1342

Met	Ser	Glu	Phe	Asn	Thr	Thr	Phe	Gln	Pro	Ser	Val	Phe	Ile	Leu	Thr
1				5					10					15	
Gly	Leu	Arg	Gly	Leu	Val	Gly	Ala	Arg	Leu	Trp	Leu	Gly	Pro	Leu	Leu
			20					25					30		
Ser	Leu	Met	Tyr	Ile	Thr	Thr	Leu	Ala	Gly	Asn	Cys	Thr	Val	Ile	Tyr
		35					40					45			

Leu	Val	Arg	Thr	Glu	Arg	Ser	Leu	Gln	Glu	Pro	Gln	Tyr	Gln	Phe	Leu
50						55					60				
Ser	Met	Leu	Ala	Gly	Ala	Asp	Ile	Val	Leu	Ser	Val	Ser	Thr	Leu	Phe
65					70					75					80
Ser	Val	Leu	Lys	Val	Phe	Ile	Phe	Asp	Leu	Tyr	Glu	Ile	Ala	Phe	Asp
			85						90					95	
Ser	Cys	Leu	Ala	Gln	Leu	Phe	Phe	Ile	His	Thr	Ser	Ser	Ser	Met	Gly
		100						105					110		
Ser	Gly	Ile	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg	Phe	Val	Ala	Ile	Ser
	115						120					125			
His	Pro	Leu	Gln	Tyr	Thr	Thr	Ile	Leu	Thr	Asn	Ser	Arg	Val	Thr	Arg
	130					135					140				
Met	Gly	Leu	Ala	Ala	Phe	Leu	Arg	Gly	Val	Ala	Leu	Met	Met	Pro	Leu
145					150					155					160
Pro	Ile	Leu	Leu	Lys	Arg	Leu	Pro	Phe	Cys	Lys	Gly	Gln	Leu	Leu	Ser
			165						170					175	
Tyr	Ser	Tyr	Cys	Ile	His	Pro	Asn	Val	Met	Lys	Leu	Ala	Cys	Gly	Gln
		180					185						190		
Val	Lys	Ile	Asn	Ile	Phe	Tyr	Gly	Leu	Val	Leu	Val	Ile	Phe	Ser	Phe
	195						200					205			
Gly	Val	Asp	Phe	Leu	Leu	Ile	Ala	Ile	Ser	Tyr	Ala	Leu	Ile	Phe	Gln
	210					215					220				
Ala	Val	Met	Gly	Ile	Ala	Ser	Arg	Glu	Gly	Gln	Met	Lys	Ala	Leu	Asn
225					230					235					240
Thr	Cys	Leu	Ser	His	Ile	Phe	Ile	Val	Phe	Ile	Tyr	Tyr	Gly	Pro	Leu
			245						250					255	
Leu	Ala	Ile	Thr	Val	Met	His	Arg	Ile	Ser	Arg	Arg	Ser	Ser	Pro	Ile
		260						265					270		
Ala	His	Ala	Val	Leu	Gly	Asn	Ile	Tyr	Leu	Phe	Met	Pro	Pro	Met	Leu
	275						280					285			
Asn	Pro	Ile	Val	Tyr	Ser	Leu	Lys	Thr	Lys	Gln	Ile	Arg	Ser	Ala	Leu
	290					295					300				
Arg	Lys	Ser	Leu	Lys	Ile	Gln	Arg	Arg							
305					310										

<210> 1343  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1343

Met	Thr	Thr	Leu	Asn	Tyr	Thr	Val	Val	Ser	His	Thr	Val	Phe	His	Leu
1				5					10				15		
Leu	Gly	Ile	Pro	Gly	Leu	Glu	Asp	Gln	His	Met	Trp	Ile	Ser	Ile	Pro
			20					25					30		
Phe	Phe	Ile	Ser	Tyr	Ile	Thr	Ala	Leu	Leu	Gly	Asn	Ser	Leu	Leu	Ile
	35						40					45			
Phe	Ile	Ile	Leu	Thr	Arg	Pro	Ser	Leu	His	Gly	Pro	Met	Tyr	Leu	Phe
	50					55				60					
Leu	Cys	Met	Leu	Ala	Gly	Ala	Asp	Ile	Val	Leu	Ser	Thr	Ser	Thr	Val
65					70					75					80
Pro	Gln	Ala	Leu	Ser	Ile	Phe	Trp	Phe	His	Ala	Gly	Glu	Ile	Ser	Leu
			85					90					95		
Asp	Arg	Cys	Ile	Thr	Gln	Leu	Phe	Phe	Ile	His	Ser	Thr	Phe	Ile	Ser
		100					105					110			
Glu	Ser	Gly	Ile	Leu	Leu	Val	Met	Ala	Phe	Asp	Arg	Tyr	Ile	Ala	Ile



His	Leu	Pro	Glu	Thr	Val	Val	Phe	Phe	Phe	Ser	Ala	Thr	Asn	Leu	Phe
	195						200					205			
Phe	Ser	Met	Ile	Ile	Val	Leu	Ile	Ser	Tyr	Phe	Asn	Ile	Val	Leu	Ala
	210					215					220				
Ile	Leu	Arg	Ile	Arg	Ser	Ser	Glu	Gly	Arg	Lys	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Met	Met	Ala	Val	Thr	Val	Phe	Tyr	Gly	Thr	Leu	Leu
			245						250					255	
Phe	Met	Tyr	Leu	Gln	Pro	Arg	Thr	Asn	His	Ser	Leu	Asp	Thr	Asp	Lys
		260						265					270		
Ile	Ala	Ser	Val	Phe	Tyr	Thr	Leu	Ile	Ile	Pro	Met	Leu	Asn	Pro	Val
	275						280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Cys	Ala	Leu	Lys	Glu	Phe
	290				295						300				
Leu	Lys	Asn	Pro	Met	Gln	Lys	Ile	Gln	Ser	Tyr	Met	Asn	Leu		
305					310					315					

<210> 1345  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1345

Met	Gly	Gly	Glu	Ala	His	Asn	Ser	Ser	Gly	Leu	Pro	Pro	Phe	Ile	Leu
1				5					10					15	
Thr	Gly	Leu	Pro	Gly	Met	Glu	Thr	Ser	Gln	His	Trp	Leu	Phe	Leu	Leu
			20					25					30		
Leu	Gly	Val	Leu	Tyr	Thr	Val	Ser	Ile	Val	Gly	Asn	Ala	Leu	Ile	Leu
	35					40					45				
Phe	Ile	Ile	Lys	Glu	Glu	Glu	Ser	Leu	His	Gln	Pro	Met	Tyr	Tyr	Phe
	50				55						60				
Leu	Ser	Leu	Leu	Ser	Leu	Asn	Asp	Leu	Gly	Val	Ser	Phe	Ser	Thr	Leu
65					70				75						80
Thr	Thr	Val	Leu	Gly	Val	Phe	Cys	Phe	Leu	Leu	Arg	Glu	Ile	Ser	Phe
			85					90					95		
Asn	Ser	Cys	Met	Ser	Gln	Met	Phe	Phe	Ile	His	Leu	Phe	Ser	Phe	Met
		100					105						110		
Glu	Ser	Gly	Ile	Leu	Leu	Ala	Met	Ser	Phe	Asp	Arg	Tyr	Val	Ala	Ile
	115					120						125			
Cys	Asn	Pro	Leu	His	Tyr	Ser	Thr	Val	Leu	Thr	Asp	Ala	Arg	Val	Met
	130				135						140				
Trp	Met	Gly	Val	Cys	Val	Phe	Phe	Arg	Ser	Phe	Cys	Met	Ile	Phe	Pro
145				150					155						160
Leu	Pro	Phe	Leu	Leu	Lys	Arg	Leu	Pro	Phe	Cys	Lys	Ala	Asn	Val	Leu
			165					170						175	
Ser	His	Ala	Tyr	Cys	Leu	His	Pro	Asp	Met	Ile	Arg	Leu	Pro	Cys	Gly
		180					185						190		
Asp	Ile	Thr	Ile	Asn	Asn	Ile	Phe	Gly	Leu	Phe	Ile	Val	Ile	Ser	Thr
	195					200						205			
Phe	Gly	Leu	Asp	Ser	Ala	Leu	Ile	Leu	Leu	Ser	Tyr	Val	Leu	Ile	Leu
	210				215					220					
Arg	Ser	Val	Leu	Ala	Ile	Ala	Ser	Arg	Glu	Glu	Arg	Leu	Lys	Thr	Leu
225				230					235						240
Asn	Thr	Cys	Val	Ser	His	Leu	Cys	Ala	Val	Leu	Ile	Phe	Tyr	Val	Pro
			245					250						255	
Met	Val	Gly	Val	Ser	Met	Ala	Ala	Arg	Tyr	Gly	Arg	His	Ala	Pro	Arg





<210> 1347  
 <211> 320  
 <212> PRT  
 <213> Mus musculus

<400> 1347  
 Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Leu Leu Ile Gly Ile  
 1 5 10 15  
 Pro Gly Leu Glu Glu Ala His Phe Trp Phe Gly Phe Pro Leu Leu Ser  
 20 25 30  
 Met Tyr Ala Val Ala Leu Phe Gly Asn Cys Ile Val Val Phe Ile Val  
 35 40 45  
 Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met  
 50 55 60  
 Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile  
 65 70 75 80  
 Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Thr Phe Asp Ala Cys  
 85 90 95  
 Leu Ala Gln Met Phe Phe Ile His Thr Leu Ser Ala Ile Glu Ser Thr  
 100 105 110  
 Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro  
 115 120 125  
 Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Val Gln Ile Gly  
 130 135 140  
 Met Val Ala Leu Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu  
 145 150 155 160  
 Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser  
 165 170 175  
 Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Thr Asp Thr Leu  
 180 185 190  
 Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val  
 195 200 205  
 Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val  
 210 215 220  
 Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys  
 225 230 235 240  
 Val Ser His Ile Ser Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly  
 245 250 255  
 Leu Ser Val Val His Arg Phe Gly Asn Ser Leu Asp Pro Ile Val His  
 260 265 270  
 Val Leu Met Gly Asp Val Tyr Leu Leu Pro Pro Val Ile Asn Pro  
 275 280 285  
 Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala  
 290 295 300  
 Met Phe Lys Ile Ser Cys Asp Lys Asp Ile Glu Ala Gly Gly Asn Thr  
 305 310 315 320

<210> 1348  
 <211> 329  
 <212> PRT  
 <213> Mus musculus

<400> 1348  
 Met Ser Asn Thr Ile Ser Gln Thr Met Glu Ser Pro Asn His Thr Asp  
 1 5 10 15  
 Leu Asp Pro Ser Ile Phe Phe Leu Leu Gly Ile Pro Gly Leu Glu Gln



Ser	Thr	Thr	Leu	Pro	Lys	Met	Leu	Ala	Ile	Phe	Trp	Leu	Arg	Ser	His
				85					90					95	
Val	Ile	Ser	Tyr	His	Gly	Cys	Leu	Thr	Gln	Met	Phe	Phe	Val	His	Ala
			100					105					110		
Val	Phe	Ala	Thr	Glu	Ser	Ala	Val	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg
		115					120					125			
Tyr	Val	Ala	Ile	Cys	Arg	Pro	Leu	His	Tyr	Thr	Ser	Ile	Leu	Asn	Ala
	130					135					140				
Val	Val	Ile	Gly	Lys	Ile	Gly	Leu	Ala	Cys	Val	Thr	Arg	Gly	Leu	Leu
145				150					155					160	
Phe	Val	Phe	Pro	Phe	Val	Ile	Leu	Ile	Glu	Arg	Leu	Pro	Phe	Cys	Gly
				165					170					175	
His	His	Ile	Ile	Pro	His	Thr	Tyr	Cys	Glu	His	Met	Gly	Ile	Ala	Lys
			180					185					190		
Leu	Ala	Cys	Ala	Ser	Ile	Lys	Pro	Asn	Thr	Ile	Tyr	Gly	Leu	Thr	Val
		195					200					205			
Ala	Leu	Ser	Val	Thr	Gly	Met	Asp	Val	Val	Leu	Ile	Ala	Thr	Ser	Tyr
	210					215					220				
Ile	Leu	Ile	Leu	Gln	Ala	Val	Leu	Arg	Leu	Pro	Ser	Lys	Asp	Ala	Gln
225				230					235					240	
Phe	Arg	Ala	Phe	Ser	Thr	Cys	Gly	Ala	His	Ile	Cys	Val	Ile	Leu	Val
			245					250						255	
Phe	Tyr	Ile	Pro	Ala	Phe	Phe	Ser	Phe	Phe	Thr	His	Arg	Phe	Gly	His
		260					265						270		
His	Val	Pro	Pro	Gln	Val	His	Ile	Leu	Ala	Asn	Leu	Tyr	Leu	Leu	
	275					280					285				
Val	Pro	Pro	Val	Leu	Asn	Pro	Leu	Val	Tyr	Gly	Ile	Asn	Thr	Lys	Gln
	290				295					300					
Ile	Arg	Leu	Arg	Ile	Leu	Asp	Phe	Phe	Val	Lys	Arg	Arg			
305				310					315						

<210> 1350  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 1350

Met	Ile	Ser	Ser	Lys	Ala	Phe	Val	Asn	Ile	Thr	Phe	Phe	Gln	Pro	Gln
1				5					10					15	
Ser	Phe	Leu	Met	Thr	Gly	Ile	Pro	Gly	Leu	Glu	Phe	Ala	His	Gly	Trp
		20						25					30		
Ile	Ser	Ile	Pro	Phe	Ser	Ser	Met	Tyr	Thr	Val	Ala	Leu	Thr	Gly	Asn
	35					40						45			
Cys	Leu	Ile	Leu	Leu	Ala	Val	Arg	Arg	Thr	His	Ser	Leu	His	Gln	Pro
	50				55					60					
Met	Tyr	Tyr	Phe	Leu	Ser	Met	Leu	Ala	Leu	Ser	Asp	Val	Gly	Leu	Ser
65				70					75					80	
Leu	Ser	Thr	Leu	Pro	Ser	Thr	Leu	Ala	Val	Leu	Trp	Phe	Asp	Tyr	Arg
			85					90					95		
Phe	Ile	Asp	Phe	Asn	Ala	Cys	Leu	Ile	Gln	Met	Phe	Phe	Leu	His	Phe
		100					105						110		
Phe	Ser	Val	Val	Glu	Ser	Ser	Val	Leu	Leu	Ala	Met	Ser	Phe	Asp	Arg
	115					120					125				
Phe	Val	Ala	Ile	Ser	Asn	Pro	Leu	Arg	Tyr	Ala	Ser	Val	Leu	Thr	Asn
	130				135					140					
Asn	Val	Ile	Ile	Arg	Ile	Gly	Val	Ala	Ile	Thr	Thr	Arg	Ala	Thr	Leu

145					150					155				160
Ser	Leu	Leu	Pro	Leu	Pro	Phe	Leu	Leu	Lys	Arg	Leu	Asn	Tyr	Cys
				165					170					175
Gly	Lys	Ile	Leu	Leu	Ser	His	Ser	Phe	Cys	Phe	His	Ala	Asp	Val
			180					185					190	
Lys	Leu	Ala	Cys	Ala	Asp	Ile	Thr	Val	Asn	Ile	Leu	Tyr	Gly	Leu
	195						200				205			
Val	Val	Leu	Ser	Thr	Val	Gly	Ile	Asp	Ser	Leu	Leu	Ile	Val	Met
	210					215					220			Ser
Tyr	Ser	Leu	Ile	Leu	His	Thr	Val	Met	Gly	Leu	Ala	Ser	Pro	Arg
225					230					235				240
Arg	Val	Arg	Thr	Leu	Asn	Thr	Cys	Val	Ser	His	Ile	Leu	Ala	Val
			245					250						255
Val	Phe	Tyr	Ile	Pro	Val	Ile	Gly	Val	Ser	Met	Ile	His	Arg	Phe
			260				265					270		Gly
Lys	His	Leu	Pro	His	Ile	Val	His	Ala	Leu	Val	Ala	Tyr	Val	Tyr
	275					280					285			Leu
Val	Val	Pro	Pro	Val	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Val	Lys	Ser
	290					295					300			Lys
Pro	Ile	Arg	Gly	Ala	Met	Phe	Arg	Val	Leu	Ser	Arg	Lys	Gly	
305					310					315				

<210> 1351  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1351

Met	Ala	Leu	Phe	Asn	Val	Thr	His	Pro	Ala	Ser	Phe	Leu	Leu	Thr	Gly
1				5				10						15	
Ile	Pro	Gly	Leu	Glu	Ser	Leu	His	Pro	Trp	Leu	Ala	Gly	Pro	Leu	Cys
		20					25					30			
Val	Met	Tyr	Ala	Val	Ala	Leu	Gly	Ala	Asn	Thr	Val	Ile	Leu	Gln	Ala
	35					40					45				
Val	Arg	Val	Glu	Pro	Ile	Leu	His	Ala	Pro	Met	Tyr	Tyr	Phe	Leu	Ser
	50				55					60					
Met	Leu	Ser	Phe	Ser	Asp	Val	Ala	Met	Ser	Met	Ala	Thr	Leu	Pro	Thr
65					70				75					80	
Val	Leu	Arg	Thr	Phe	Cys	Phe	Asp	Ala	Arg	Ser	Ile	Ala	Phe	Asp	Ala
			85					90					95		
Cys	Leu	Val	Gln	Met	Phe	Leu	Ile	His	Ser	Phe	Ser	Met	Met	Glu	Ser
		100						105					110		
Gly	Ile	Leu	Leu	Ala	Met	Ser	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
	115					120					125				
Pro	Leu	His	Tyr	Ala	Thr	Val	Leu	Thr	Asn	Glu	Phe	Ile	Ala	Gly	Met
	130					135					140				
Gly	Leu	Ala	Val	Thr	Ala	Arg	Ser	Phe	Ile	Thr	Leu	Phe	Pro	Leu	Pro
145					150				155					160	
Phe	Leu	Ile	Lys	Arg	Leu	Pro	Ile	Cys	Lys	Ser	Asn	Val	Leu	Ser	His
			165					170					175		
Ser	Tyr	Cys	Leu	His	Pro	Asp	Met	Met	Lys	Leu	Ala	Cys	Ala	Asp	Ile
		180					185					190			
Thr	Ile	Asn	Ser	Ile	Tyr	Gly	Leu	Phe	Val	Leu	Val	Ser	Thr	Phe	Gly
	195					200					205				
Met	Asp	Leu	Leu	Phe	Ile	Phe	Leu	Ser	Tyr	Val	Leu	Ile	Leu	Arg	Ser
	210					215					220				

Val	Met	Ala	Ile	Ala	Ser	His	Glu	Glu	Arg	Leu	Lys	Ala	Leu	Asn	Thr
225					230					235					240
Cys	Val	Ser	His	Ile	Leu	Ala	Val	Leu	Ala	Phe	Tyr	Val	Pro	Met	Ile
				245					250					255	
Gly	Val	Ser	Thr	Val	His	Arg	Phe	Gly	Lys	His	Ala	Pro	Arg	Tyr	Ile
			260					265					270		
His	Val	Leu	Met	Ser	Asn	Val	Tyr	Leu	Phe	Val	Pro	Pro	Val	Leu	Asn
		275					280					285			
Pro	Leu	Ile	Tyr	Ser	Ala	Lys	Thr	Lys	Glu	Ile	Arg	Arg	Ala	Ile	Phe
	290					295					300				
Arg	Met	Phe	Arg	Arg	Ile	Lys	Leu								
305					310										

<210> 1352  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1352

Met	Glu	Pro	Arg	Asn	Asn	Thr	His	Ile	Leu	Glu	Phe	Phe	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Gln	Asp	Pro	Asn	Leu	Gln	Pro	Val	Ile	Cys	Gly	Leu	Phe	Leu
			20					25					30		
Ser	Met	Tyr	Leu	Ile	Thr	Val	Val	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Thr
		35				40						45			
Ile	Ile	Ser	Asp	Ala	Asn	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Val	Asp	Ile	Cys	Phe	Val	Ser	Thr	Thr	Val	Pro	Lys
65					70					75					80
Met	Leu	Val	Asn	Ile	Gln	Thr	Lys	Arg	Lys	Ser	Ile	Ser	Tyr	Ala	Asp
			85						90					95	
Cys	Ile	Thr	Gln	Met	Tyr	Phe	Phe	Leu	Ile	Phe	Val	Glu	Leu	Asp	Asn
			100					105					110		
Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
	115					120						125			
Pro	Leu	His	Tyr	Thr	Gly	Ile	Met	Asn	Arg	Arg	Leu	Cys	Gly	Phe	Leu
	130					135					140				
Val	Leu	Val	Cys	Trp	Ile	Val	Ser	Val	Leu	His	Ala	Leu	Leu	Gln	Ser
145					150					155					160
Met	Met	Val	Leu	Arg	Leu	Ser	Phe	Cys	Thr	Asp	Leu	Glu	Ile	Pro	His
			165						170					175	
Phe	Phe	Cys	Glu	Leu	Asn	Gln	Val	Ala	Gln	Leu	Thr	Cys	Ser	Asp	Thr
			180					185					190		
Phe	Leu	Asn	Asp	Val	Val	Met	Tyr	Phe	Ala	Leu	Val	Leu	Leu	Ala	Ile
	195						200					205			
Val	Pro	Leu	Phe	Gly	Ile	Leu	Tyr	Ser	Tyr	Ser	Lys	Ile	Val	Ser	Ser
	210					215					220				
Ile	Arg	Ala	Met	Ser	Thr	Val	Gln	Gly	Lys	Tyr	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Phe	Thr	Gly	Leu
			245						250					255	
Gly	Val	Tyr	Leu	Ser	Ser	Ala	Val	Ser	His	Ser	Ser	Gln	Ala	Ser	Ala
			260					265					270		
Thr	Ala	Ser	Val	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Lys	Arg	Leu

290  
Leu Gly Val Lys Leu  
305

295

300

<210> 1353  
<211> 312  
<212> PRT  
<213> Mus musculus

<400> 1353  
Met Pro Ser Asn Asn Glu Thr Ala Ser His Pro Ser Leu Phe His Leu  
1 5 10 15  
Leu Gly Ile Pro Gly Leu Glu Ala Phe His Ile Trp Ile Ala Phe Pro  
20 25 30  
Phe Phe Val Val Tyr Leu Ile Ala Leu Val Gly Asn Phe Thr Ile Leu  
35 40 45  
Cys Val Ile Lys Asn Glu Gln Ser Leu His Gln Pro Met Phe Tyr Phe  
50 55 60  
Leu Ala Leu Leu Ser Phe Ile Asp Leu Gly Leu Ser Thr Ser Thr Ile  
65 70 75 80  
Pro Lys Met Leu Gly Ile Phe Trp Phe Asn Leu Arg Glu Ile Ser Phe  
85 90 95  
Glu Gly Cys Leu Ile Gln Met Phe Phe Ile His Thr Tyr Thr Gly Met  
100 105 110  
Glu Ser Val Val Leu Leu Ala Met Ala Ile Asp Arg Phe Val Ala Ile  
115 120 125  
Cys Tyr Pro Leu Arg Tyr Thr Ser Val Leu Thr Asn Lys Val Val Ala  
130 135 140  
Val Met Ala Ser Val Val Ile Gly Arg Pro Val Leu Leu Val Ile Pro  
145 150 155 160  
Phe Cys Pro Leu Leu Lys Arg Leu Pro Phe Cys Gly His Tyr Ile Ile  
165 170 175  
Pro His Thr Tyr Cys Glu His Met Gly Ile Ala Arg Leu Ala Cys Ala  
180 185 190  
Asn Ile Arg Ile Asn Ile Ile Tyr Gly Leu Phe Thr Ile Ala Ala Leu  
195 200 205  
Ile Phe Asp Leu Ile Leu Ile Ala Phe Ser Tyr Ala Trp Ile Leu Gln  
210 215 220  
Ala Val Phe Arg Leu Pro Ser Arg Asp Ala Arg His Lys Ala Leu Ser  
225 230 235 240  
Thr Cys Gly Ser His Val Cys Val Ile Leu Ala Phe Tyr Thr Pro Ala  
245 250 255  
Phe Phe Ser Phe Met Thr His Arg Phe Gly Arg Asn Val Pro Arg Tyr  
260 265 270  
Ile His Ile Leu Leu Ala Asn Leu Tyr Val Val Val Pro Pro Cys Leu  
275 280 285  
Asn Pro Val Ile Tyr Gly Val Arg Thr Lys Gln Ile Arg Glu Gly Val  
290 295 300  
Leu Lys Ile Phe Val Lys Lys Glu  
305 310

<210> 1354  
<211> 317  
<212> PRT  
<213> Mus musculus

<400> 1354

Met	Ile	Phe	Ser	Asn	Asn	Ser	His	Leu	Leu	Pro	His	Thr	Phe	Phe	Leu
1				5					10					15	
Thr	Gly	Ile	Pro	Gly	Leu	Thr	Ala	Ala	His	Val	Trp	Ile	Ser	Leu	Pro
			20					25					30		
Phe	Cys	Phe	Met	Phe	Val	Leu	Ser	Leu	Thr	Gly	Asn	Ala	Val	Leu	Leu
		35					40					45			
Ser	Leu	Ile	Trp	Ile	Glu	His	Arg	Leu	His	Gln	Pro	Met	Phe	Leu	Phe
	50					55					60				
Leu	Ala	Met	Leu	Ser	Phe	Val	Asp	Leu	Val	Leu	Ser	Leu	Ser	Thr	Leu
65					70					75					80
Pro	Lys	Met	Leu	Ala	Ile	Phe	Trp	Phe	Gly	Ala	Thr	Ala	Ile	Ser	Ser
				85					90					95	
Tyr	Ala	Cys	Leu	Ser	Gln	Met	Phe	Leu	Ile	His	Ala	Phe	Ser	Ala	Met
			100					105					110		
Glu	Ser	Gly	Val	Leu	Val	Ala	Met	Ala	Leu	Asp	Arg	Phe	Val	Ala	Ile
		115					120					125			
Cys	Asn	Pro	Leu	His	Tyr	Ala	Thr	Ile	Leu	Thr	Pro	Glu	Val	Val	Ala
	130					135					140				
Lys	Ile	Gly	Gly	Leu	Val	Ala	Leu	Arg	Gly	Val	Gly	Leu	Thr	Ile	Phe
145					150					155					160
Phe	Pro	Ser	Leu	Ala	Cys	Arg	Leu	Ser	Tyr	Cys	Gly	Ser	His	Thr	Ile
				165					170					175	
Ala	Tyr	Thr	Tyr	Cys	Glu	His	Met	Ser	Val	Val	Lys	Leu	Ala	Cys	Gly
			180					185					190		
Ala	Ile	Thr	Val	Asp	Ser	Leu	Tyr	Ala	Phe	Ala	Val	Ala	Ile	Phe	Leu
		195					200					205			
Gly	Val	Gly	Asp	Met	Ala	Phe	Ile	Ala	Tyr	Ser	Tyr	Gly	Gln	Ile	Val
	210					215					220				
Lys	Thr	Val	Met	Arg	Phe	Pro	Ser	Pro	Glu	Ala	Arg	Gly	Lys	Ala	Gly
225					230					235					240
Ser	Thr	Cys	Thr	Ala	His	Val	Cys	Val	Ile	Leu	Phe	Phe	Tyr	Gly	Pro
				245					250					255	
Gly	Phe	Leu	Ser	Val	Val	Met	Gln	Arg	Phe	Gly	Pro	Ser	Thr	Ala	Ser
			260				265						270		
Ala	Ala	Lys	Val	Ile	Leu	Ala	Asn	Leu	Tyr	Leu	Leu	Phe	Pro	Pro	Ala
		275					280					285			
Leu	Asp	Pro	Ile	Val	Tyr	Gly	Val	Lys	Thr	Lys	Gln	Ile	Arg	Glu	Cys
	290					295					300				
Leu	Phe	Thr	Ile	Ile	Gly	Ser	Lys	Lys	Ile	Glu	Pro	Thr			
305					310					315					

<210> 1355

<211> 312

<212> PRT

<213> Mus musculus

<400> 1355

Met	Glu	Lys	Trp	Asn	Gln	Ser	Ser	Ser	Asp	Phe	Thr	Leu	Leu	Gly	Leu
1				5					10					15	
Leu	Pro	Gln	Asn	Gln	Thr	Gly	Leu	Leu	Leu	Met	Leu	Ile	Ile	Phe	
			20					25					30		
Val	Phe	Ser	Leu	Ala	Leu	Cys	Gly	Asn	Ser	Gly	Met	Ile	His	Leu	Ile
		35					40					45			
Arg	Val	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Ser	Gln

50		55		60
Leu Ser Leu Met Asp	Leu Met Tyr Ile Ser Thr	Thr Val Pro Lys Met		
65	70	75	80	
Ala Phe Asn Phe	Leu Ser Gly Gln Lys Ser Ile Ser Phe Leu Gly Cys			
	85	90	95	
Gly Val Gln Ser	Phe Phe Leu Thr Met Ala Cys Ser Glu Gly Leu			
	100	105	110	
Leu Leu Ala Ser Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro				
	115	120	125	
Leu His Tyr Pro Ile Arg Met Ser Lys Ile Met Cys Leu Lys Met Ile				
	130	135	140	
Ile Gly Ser Trp Ile Leu Gly Ser Ile Asn Ser Leu Ala His Thr Val				
145	150	155	160	
Tyr Ala Leu His Ile Pro Tyr Cys His Ser Arg Ser Ile Asn His Phe				
	165	170	175	
Phe Cys Asp Val Pro Ala Met Leu Pro Leu Ala Cys Met Asp Thr Trp				
	180	185	190	
Val Tyr Glu Tyr Met Val Phe Val Ser Thr Ser Leu Phe Leu Leu Leu				
	195	200	205	
Pro Phe Leu Gly Ile Thr Ala Ser Tyr Gly Arg Val Leu Phe Ala Val				
	210	215	220	
Phe His Met Arg Ser Lys Glu Gly Lys Lys Lys Ala Phe Thr Thr Cys				
225	230	235	240	
Ser Thr His Leu Thr Val Val Thr Phe Tyr Tyr Ala Pro Phe Val Tyr				
	245	250	255	
Thr Tyr Leu Arg Pro Arg Ser Leu Arg Ser Pro Thr Glu Asp Lys Ile				
	260	265	270	
Leu Ala Val Phe Tyr Thr Ile Leu Thr Pro Met Leu Asn Pro Ile Ile				
	275	280	285	
Tyr Ser Leu Arg Asn Lys Glu Val Leu Gly Ala Met Thr Arg Val Leu				
	290	295	300	
Gly Thr Phe Pro Ser Thr Lys Pro				
305	310			

<210> 1356  
 <211> 321  
 <212> PRT  
 <213> Mus musculus

<400> 1356

Met Tyr Ser Ile Arg Phe Thr Met Asn Met Lys Tyr Ile Asn Gln Thr				
1	5	10	15	
Val Val Ser Gly Phe Ile Leu Leu Gly Leu Thr Asp Asp Thr Lys Leu				
	20	25	30	
Gln Leu Ile Ile Phe Ser Val Phe Leu Ser Met Tyr Leu Ala Thr Val				
	35	40	45	
Ile Gly Asn Leu Leu Ile Ile Leu Ala Thr Asn Phe Asp Ser His Leu				
	50	55	60	
His Thr Pro Met Tyr Phe Phe Leu Ser Val Leu Ser Phe Asn Asp Ile				
65	70	75	80	
Phe Leu Val Thr Cys Thr Ile Pro Lys Met Leu Val Asn Ile Gln Thr				
	85	90	95	
Gly Asn Gln Asn Ile Thr Tyr Gly Gly Cys Leu Thr Gln Val Cys Phe				
	100	105	110	
Val Leu Val Ser Val Gly Met Glu Asn Cys Leu Leu Ala Met Ala				
	115	120	125	



Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro	Leu	Arg	Tyr	Arg	Ile	Ile
130						135					140				
Met	Asn	Pro	Tyr	Leu	Cys	Ile	Leu	Met	Val	Ala	Phe	Ser	Met	Ile	Gly
145					150					155					160
Ser	Met	Ala	Asn	Ala	Leu	Val	Asn	Gly	Leu	Met	Val	Leu	His	Leu	Ser
			165						170					175	
Phe	Cys	Thr	Glu	Leu	Ile	Ile	Pro	His	Phe	Phe	Cys	Glu	Leu	Thr	Gln
			180					185					190		
Ile	Thr	Lys	Leu	Ala	Cys	Ser	Asn	Thr	Leu	Ile	Asp	Asn	Ile	Leu	Ile
		195					200					205			
Tyr	Ile	Ser	Ser	Cys	Ile	Phe	Gly	Gly	Val	Pro	Leu	Ser	Gly	Ile	Ile
	210					215					220				
Leu	Ser	Tyr	Cys	Gln	Ile	Ala	Thr	Thr	Val	Leu	Arg	Met	Ser	Ser	Ser
225					230					235					240
Glu	Gly	Arg	Tyr	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Ser	Val
				245					250					255	
Val	Phe	Leu	Phe	Tyr	Gly	Thr	Gly	Phe	Gly	Val	Tyr	Ile	Ser	Ser	Thr
			260					265					270		
Ile	Thr	Glu	Ser	Ser	Arg	Lys	Ser	Ala	Val	Ala	Ser	Val	Leu	Tyr	Ser
		275					280					285			
Val	Val	Pro	Gln	Met	Ile	Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Arg
	290					295					300				
Asp	Met	Lys	Glu	Ala	Leu	Lys	Lys	Leu	Ile	Ser	Arg	Ile	Leu	Phe	Pro
305					310					315					320
Leu															

<210> 1357  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1357

Met	Gly	Thr	Phe	Asn	Ala	Ser	Leu	Gly	Lys	Gly	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Phe	Ser	Asp	Phe	Pro	Gln	Leu	Glu	Val	Phe	Leu	Phe	Val	Phe	Ile	Leu
			20					25					30		
Val	Phe	Tyr	Leu	Leu	Thr	Leu	Leu	Gly	Asn	Thr	Thr	Ile	Ile	Ala	Leu
		35				40						45			
Ser	Arg	Leu	Asp	Val	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
His	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Ser	Thr	Val	Pro	Gln
65					70					75					80
Leu	Leu	Ile	Asn	Leu	Cys	Gly	Leu	Asp	Arg	Thr	Ile	Ser	Tyr	Gly	Gly
			85					90						95	
Cys	Val	Ala	Gln	Leu	Leu	Ile	Phe	Leu	Ala	Leu	Val	Ser	Thr	Glu	Cys
			100					105					110		
Leu	Leu	Leu	Gly	Val	Met	Ala	Phe	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Arg
		115					120					125			
Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	His	Pro	Gln	Leu	Cys	Gln	Gly	Leu
		130				135					140				
Ala	Ile	Ser	Ser	Trp	Val	Ser	Gly	Leu	Val	Asn	Ser	Val	Ile	Gln	Thr
145					150					155					160
Gly	Leu	Val	Met	Ala	Met	Pro	Leu	Cys	Ser	His	Arg	Leu	Asn	His	Phe
			165						170					175	
Phe	Cys	Glu	Met	Pro	Ile	Phe	Leu	Lys	Leu	Ala	Cys	Glu	Asp	Thr	Asn

			180					185				190			
Gly	Thr	Glu	Val	Lys	Met	Phe	Val	Ala	Arg	Thr	Ile	Ile	Leu	Ile	Phe
		195					200					205			
Pro	Ala	Ala	Leu	Ile	Leu	Gly	Ser	Tyr	Gly	His	Ile	Ala	Arg	Ala	Ile
	210					215					220				
Leu	Arg	Ile	Lys	Ser	Met	Ala	Gly	Arg	Arg	Lys	Ala	Phe	Gly	Thr	Cys
225					230					235					240
Gly	Ser	His	Leu	Ile	Val	Val	Ser	Leu	Phe	Tyr	Gly	Ser	Gly	Ile	Tyr
			245						250					255	
Thr	Tyr	Leu	Gln	Pro	Ile	His	Arg	Tyr	Ser	Glu	Asn	Glu	Gly	Lys	Phe
		260						265					270		
Val	Ala	Val	Phe	Tyr	Thr	Ile	Leu	Thr	Pro	Ile	Leu	Asn	Pro	Leu	Ile
	275						280					285			
Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Trp	Lys	Val	Leu
	290					295					300				
Gly	Lys	Gly	Thr	Asp	Leu	Val									
305					310										

<210> 1358  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1358

Met	Gly	Ser	Phe	Asn	Thr	Ser	Phe	Arg	Gln	Gly	Phe	Phe	Leu	Val	Gly
1				5					10					15	
Phe	Ser	Asp	Phe	Pro	Gln	Leu	Glu	Leu	Leu	Leu	Ser	Val	Leu	Ile	Ser
			20					25					30		
Ile	Phe	Tyr	Ser	Leu	Thr	Leu	Phe	Gly	Asn	Ser	Thr	Ile	Ile	Ile	Leu
	35					40					45				
Ser	Gln	Leu	Asp	Ala	Arg	Leu	Gln	Met	Pro	Met	Tyr	Phe	Phe	Leu	Cys
	50					55				60					
His	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Ser	Ile	Val	Pro	Gln
65					70				75					80	
Leu	Leu	Ile	Asn	Leu	Gln	Gly	Tyr	Asp	Arg	Thr	Ile	Ser	Tyr	Gly	Gly
			85					90						95	
Cys	Val	Ala	Gln	Leu	Phe	Leu	Phe	Leu	Ala	Leu	Ala	Thr	Thr	Glu	Ser
		100						105					110		
Val	Leu	Leu	Val	Val	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Val	Cys	Arg
	115					120						125			
Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	His	Pro	Val	Leu	Cys	Leu	Ser	Leu
	130					135					140				
Ala	Ile	Val	Ser	Trp	Val	Gly	Gly	Phe	Met	Asn	Ser	Leu	Ile	Gln	Thr
145					150				155					160	
Ser	Leu	Met	Met	Ala	Val	Pro	Leu	Cys	Gly	His	Arg	Leu	Asn	His	Phe
			165						170					175	
Phe	Cys	Glu	Ile	Pro	Ser	Leu	Leu	Lys	Leu	Ala	Cys	Glu	Asp	Thr	Glu
		180						185				190			
Gly	Thr	Gly	Ala	Lys	Met	Phe	Val	Val	Arg	Val	Val	Phe	Leu	Ile	Phe
	195					200						205			
Pro	Ile	Thr	Leu	Ile	Leu	Ser	Ser	Tyr	Ala	Asn	Ile	Ala	Gln	Ala	Val
	210					215					220				
Leu	Lys	Thr	Lys	Ser	Met	Ala	Gly	Cys	Lys	Lys	Ala	Leu	Gly	Thr	Cys
225					230				235						240
Gly	Ser	His	Leu	Val	Val	Val	Ser	Met	Phe	Tyr	Gly	Ala	Ala	Met	Tyr
			245						250					255	



<210> 1360  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 1360  
 Met Glu Ala Thr Thr Cys Asn Gly Ser Val Asp Gly Ser Thr Val Phe  
 1 5 10 15  
 Tyr Leu Val Gly Ile Pro Ser Leu Pro Glu Pro Phe Tyr Leu Pro Val  
 20 25 30  
 Phe Phe Leu Phe Leu Leu Phe Tyr Leu Leu Ile Leu Val Gly Asn Ala  
 35 40 45  
 Leu Ile Leu Val Ala Val Val Ala Glu Arg Ser Leu His Lys Pro Met  
 50 55 60  
 Tyr Phe Phe Leu Ile Asn Leu Ser Ala Leu Asp Ile Leu Phe Thr Thr  
 65 70 75 80  
 Thr Thr Val Pro Lys Met Leu Ser Leu Leu Leu Gly Asp Arg Phe  
 85 90 95  
 Leu Ser Phe Pro Ala Cys Leu Leu Gln Met Tyr Leu Phe Gln Ser Phe  
 100 105 110  
 Thr Cys Ser Glu Ala Phe Ile Leu Val Val Met Ala Tyr Asp Arg Tyr  
 115 120 125  
 Val Ala Ile Cys Arg Pro Leu His Tyr Pro Val His Met Thr Pro Gln  
 130 135 140  
 Thr Asn Thr Ala Leu Ala Ala Ser Ala Trp Ile Thr Ala Leu Leu Leu  
 145 150 155 160  
 Pro Val Pro Ala Val Ile Lys Thr Ser Gln Met Val Tyr Asn Asp Ile  
 165 170 175  
 Ala Tyr Ile Tyr His Cys Phe Cys Asp His Leu Ala Leu Val Gln Ser  
 180 185 190  
 Ser Cys Ser Asp Thr Thr Pro Gln Thr Leu Met Gly Phe Cys Ile Ala  
 195 200 205  
 Met Val Val Ser Phe Leu Pro Leu Leu Leu Val Leu Leu Ser Tyr Val  
 210 215 220  
 Arg Ile Leu Thr Ser Val Leu Gln Ile Asn Ser Lys Glu Gly Arg Ser  
 225 230 235 240  
 Lys Ala Phe Ser Thr Cys Ser Ser His Leu Leu Val Val Gly Thr Tyr  
 245 250 255  
 Tyr Ser Ser Ile Ala Ile Ala Tyr Val Ala Tyr Arg Ala Asp Leu Pro  
 260 265 270  
 Leu Asp Phe His Ile Met Gly Asn Val Val Tyr Ser Ile Leu Thr Pro  
 275 280 285  
 Ile Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Lys Asp Val Lys Ala  
 290 295 300  
 Ala Ile Thr Lys Ile Val Tyr Leu Lys Gly Met Met  
 305 310 315

<210> 1361  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 1361  
 Met Glu Pro Trp Asn Ser Thr Leu Glu Ser Gly Phe Ile Leu Val Gly  
 1 5 10 15

Ile	Leu	Asp	Gly	Ser	Gly	Ser	Pro	Glu	Leu	Leu	Cys	Ala	Thr	Val	Thr
			20					25					30		
Thr	Leu	Tyr	Met	Leu	Ala	Leu	Ile	Ser	Asn	Gly	Leu	Leu	Leu	Val	
		35					40					45			
Ile	Thr	Val	Asp	Ala	Arg	Leu	His	Val	Pro	Met	Tyr	Leu	Leu	Leu	Arg
	50					55					60				
Gln	Leu	Ser	Leu	Ile	Asp	Leu	Leu	Phe	Thr	Ser	Val	Val	Thr	Pro	Asn
65					70					75					80
Thr	Val	Val	Asp	Phe	Leu	Leu	Arg	Asp	Asn	Thr	Ile	Ser	Phe	Glu	Gly
				85					90					95	
Cys	Ala	Leu	Gln	Leu	Phe	Ser	Ala	Met	Thr	Leu	Gly	Gly	Ala	Glu	Asp
			100					105					110		
Leu	Leu	Leu	Ala	Phe	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	Asn	Tyr	Met	Ile	Phe	Met	Ser	Pro	Lys	Ala	Cys	Arg	Leu	Met
		130				135					140				
Val	Ala	Ile	Ser	Trp	Ile	Leu	Ala	Ser	Leu	Ser	Ala	Leu	Gly	His	Thr
145					150					155					160
Val	Tyr	Thr	Met	His	Phe	Pro	Phe	Cys	Met	Ser	Gln	Glu	Ile	Arg	His
				165					170					175	
Leu	Leu	Cys	Glu	Val	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr
			180					185					190		
Ser	Gln	Tyr	Glu	Leu	Met	Val	Tyr	Val	Thr	Gly	Val	Ile	Phe	Leu	Leu
		195					200					205			
Leu	Pro	Leu	Ser	Ala	Ile	Ile	Thr	Ser	Tyr	Ser	Leu	Ile	Leu	Phe	Thr
		210				215					220				
Val	Leu	His	Met	Pro	Ser	Asn	Glu	Gly	Arg	Lys	Lys	Ala	Leu	Val	Thr
225					230					235					240
Cys	Ser	Ser	His	Leu	Thr	Val	Val	Gly	Met	Phe	Tyr	Gly	Gly	Ala	Thr
			245						250					255	
Phe	Met	Tyr	Val	Leu	Pro	Ser	Ser	Phe	His	Ser	Pro	Lys	Gln	Asp	Asn
			260					265					270		
Ile	Ile	Ser	Val	Phe	Tyr	Thr	Ile	Val	Thr	Pro	Ala	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ile	Gly	Ala	Val	Arg	Arg	Val
	290				295						300				
Leu	Gly	Arg	His	Ile	Leu	Pro	Ala	His	Ala	Thr	Val				
305					310					315					

<210> 1362

<211> 315

<212> PRT

<213> Mus musculus

<400> 1362

Met	Trp	Ile	Asn	Asn	Gln	Ser	Ser	Val	Asp	Asp	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Asp	Arg	Pro	Trp	Leu	Glu	Thr	Pro	Leu	Phe	Val	Ile	Phe	Leu
			20					25				30			
Val	Ala	Tyr	Ile	Phe	Ala	Leu	Phe	Gly	Asn	Ile	Ser	Ile	Ile	Leu	Val
		35					40					45			
Ser	Arg	Leu	Asp	Pro	Gln	Leu	Asp	Ser	Pro	Met	Tyr	Phe	Phe	Val	Ser
	50					55					60				
Asn	Leu	Ser	Leu	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Ser	Thr	Val	Pro	Gln
65					70					75					80
Met	Leu	Val	Asn	Leu	Arg	Gly	Pro	Glu	Lys	Thr	Ile	Ser	Tyr	Gly	Gly



Val	Ile	Phe	Leu	Leu	Lys	Arg	Leu	Pro	Phe	Cys	Arg	Thr	Asn	Ile	Val
			165						170					175	
Pro	His	Ser	Tyr	Cys	Glu	His	Ile	Gly	Val	Ala	Arg	Leu	Ala	Cys	Ala
			180					185					190		
Asp	Ile	Thr	Val	Asn	Ile	Trp	Tyr	Gly	Phe	Ser	Val	Pro	Ile	Val	Met
		195					200					205			
Val	Ile	Val	Asp	Val	Ile	Leu	Ile	Ala	Val	Ser	Tyr	Ser	Leu	Ile	Leu
	210					215					220				
Arg	Ala	Val	Phe	Arg	Leu	Pro	Ser	Gln	Asp	Ala	Arg	His	Lys	Ala	Leu
225					230					235					240
Ser	Thr	Cys	Gly	Ser	His	Leu	Cys	Val	Ile	Leu	Met	Phe	Tyr	Val	Pro
				245					250					255	
Ser	Phe	Phe	Thr	Leu	Leu	Thr	His	Arg	Phe	Gly	Arg	Asn	Ile	Pro	Arg
			260					265					270		
His	Val	His	Ile	Leu	Leu	Ala	Asn	Leu	Tyr	Val	Val	Val	Pro	Pro	Met
		275					280					285			
Leu	Asn	Pro	Ile	Val	Tyr	Gly	Val	Lys	Thr	Lys	Gln	Ile	Arg	Glu	Gly
	290					295					300				
Val	Val	His	Trp	Phe	Leu	Asp	Ile	Lys	Thr	Leu	Cys	Cys	Ser	Ser	Pro
305					310					315					320
Leu	Gly														

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 <212> PRT  
 <213> Mus musculus

<400> 1364

Met	Ser	Glu	Ala	Asn	Ser	Ser	Ser	Leu	Thr	Pro	Glu	Phe	Phe	Ile	Leu
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Asn	Gly	Ile	Arg	Gly	Leu	Glu	Asp	Ala	His	Val	Trp	Ile	Ser	Leu	Pro
			20					25					30		
Phe	Cys	Phe	Met	Tyr	Met	Ile	Ala	Val	Val	Gly	Asn	Cys	Gly	Leu	Ile
		35					40					45			
Tyr	Leu	Ile	Gly	His	Glu	Glu	Ala	Leu	His	Arg	Pro	Met	Tyr	Tyr	Phe
	50					55					60				
Leu	Thr	Leu	Leu	Ser	Phe	Thr	Asp	Ile	Thr	Leu	Cys	Thr	Thr	Thr	Val
65					70					75					80
Pro	Asn	Met	Leu	Cys	Ile	Phe	Trp	Phe	Asn	Leu	Lys	Lys	Ile	Gly	Phe
				85					90					95	
Lys	Ala	Cys	Leu	Ala	Gln	Met	Phe	Phe	Val	His	Thr	Phe	Thr	Ala	Thr
			100					105					110		
Glu	Ser	Gly	Met	Leu	Met	Leu	Met	Ala	Leu	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Cys	Tyr	Pro	Leu	Arg	Tyr	Gly	Thr	Ile	Leu	Thr	Asn	Pro	Val	Ile	Ala
	130					135					140				
Lys	Ala	Ser	Leu	Ala	Thr	Phe	Leu	Arg	Ser	Val	Ala	Phe	Ile	Leu	Pro
145					150					155					160
Phe	Thr	Phe	Leu	Thr	Lys	Arg	Leu	Pro	Tyr	Cys	Arg	Gly	Asn	Leu	Ile
				165					170					175	
Pro	His	Ala	Tyr	Cys	Asp	His	Met	Ser	Val	Ala	Lys	Ile	Ser	Cys	Gly
		180						185					190		
Asn	Val	Lys	Ile	Asn	Ala	Val	Tyr	Gly	Leu	Leu	Val	Ala	Leu	Val	Val
		195					200					205			
Cys	Ala	Phe	Asp	Ile	Phe	Cys	Ile	Thr	Val	Ser	Tyr	Thr	Met	Ile	Leu

210		215		220											
Arg	Ala	Val	Met	Asn	Leu	Ser	Ser	Ala	Asp	Ala	Arg	His	Lys	Ala	Phe
225					230					235					240
Ser	Thr	Cys	Thr	Ser	His	Ile	Cys	Ala	Ile	Val	Ile	Thr	Tyr	Val	Pro
				245						250					255
Ala	Phe	Phe	Asn	Phe	Phe	Thr	His	Arg	Phe	Gly	Ala	His	Thr	Ile	Pro
			260						265					270	
His	His	Ile	His	Ile	Ile	Val	Ala	Asn	Leu	Tyr	Leu	Leu	Leu	Pro	Ala
		275							280					285	
Thr	Met	Asn	Pro	Ile	Val	Tyr	Gly	Val	Lys	Thr	Gln	Ala	Asp	Ser	Gly
		290				295								300	
Glu	Cys	Asn	Gln	Ile	Phe										
305					310										

<210> 1365  
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 <212> PRT  
 <213> Mus musculus

<400> 1365

Met	Ser	Gly	Ala	Asn	Ser	Ser	Ser	Leu	Thr	Pro	Glu	Phe	Phe	Ile	Leu
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Asn	Gly	Val	Pro	Gly	Leu	Glu	Asp	Ala	His	Val	Trp	Ile	Ser	Leu	Pro
			20					25					30		
Phe	Cys	Phe	Met	Tyr	Met	Ile	Ala	Val	Val	Gly	Asn	Cys	Gly	Leu	Ile
		35					40					45			
Tyr	Leu	Ile	Gly	His	Glu	Glu	Ala	Leu	His	Arg	Pro	Met	Phe	Tyr	Phe
	50					55					60				
Leu	Ala	Leu	Leu	Ser	Phe	Thr	Asp	Val	Thr	Trp	Cys	Thr	Thr	Thr	Val
65				70						75					80
Pro	Asn	Met	Leu	Cys	Ile	Phe	Trp	Phe	Asn	Phe	Lys	Lys	Ile	Gly	Phe
				85					90					95	
Asn	Ser	Cys	Leu	Ala	Gln	Met	Phe	Phe	Val	His	Met	Leu	Thr	Gly	Met
			100					105						110	
Glu	Ser	Gly	Val	Leu	Met	Leu	Met	Ala	Leu	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Cys	Asn	Pro	Leu	Arg	Tyr	Thr	Thr	Ile	Leu	Thr	Asn	Pro	Val	Ile	Ala
	130					135					140				
Lys	Ala	Cys	Leu	Ala	Thr	Phe	Leu	Arg	Ser	Val	Met	Leu	Ile	Phe	Pro
145					150					155					160
Phe	Thr	Leu	Leu	Thr	Lys	Arg	Leu	Pro	Tyr	Cys	Arg	Ser	Ile	Leu	Ile
				165					170					175	
Pro	His	Thr	Tyr	Cys	Asp	His	Met	Ser	Val	Ala	Lys	Val	Ser	Cys	Gly
		180						185						190	
Asn	Ala	Lys	Val	Asn	Ala	Ile	Tyr	Gly	Leu	Met	Val	Ala	Leu	Leu	Ile
		195					200					205			
Gly	Val	Phe	Asp	Ile	Cys	Cys	Ile	Ser	Val	Ser	Tyr	Thr	Met	Ile	Leu
	210					215					220				
Arg	Ala	Val	Val	Ser	Leu	Ser	Ser	Ala	Asp	Ala	Arg	His	Lys	Ala	Phe
225					230					235					240
Ser	Thr	Cys	Thr	Ser	His	Ile	Cys	Ala	Ile	Val	Ile	Thr	Tyr	Val	Pro
				245						250					255
Ala	Phe	Phe	Thr	Phe	Phe	Thr	His	Arg	Phe	Gly	Gly	His	Thr	Ile	Pro
			260					265					270		
His	His	Val	His	Ile	Ile	Val	Ala	Asn	Leu	Tyr	Leu	Leu	Leu	Pro	Pro
		275					280						285		



Thr	Met	Asn	Pro	Ile	Val	Tyr	Gly	Val	Lys	Thr	Lys	Gln	Ile	Arg	Glu
	290					295					300				
Ser	Val	Ile	Lys	Phe	Leu	Leu	Gly	Asp	Lys	Met	Gly	Phe	Thr		
305					310					315					

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 <212> PRT  
 <213> Mus musculus

<400> 1366

Met	Ile	Lys	Phe	Asn	Gly	Ser	Val	Phe	Met	Pro	Ser	Val	Leu	Thr	Leu
1				5				10					15		
Val	Gly	Ile	Pro	Gly	Leu	Glu	Ser	Val	Gln	Cys	Trp	Ile	Gly	Ile	Pro
			20					25					30		
Phe	Cys	Val	Met	Tyr	Ile	Ile	Ala	Met	Ile	Gly	Asn	Ser	Leu	Ile	Leu
		35					40					45			
Val	Ile	Ile	Lys	Ser	Glu	Lys	Ser	Leu	His	Ile	Pro	Met	Tyr	Ile	Phe
	50					55					60				
Leu	Ala	Ile	Leu	Ala	Val	Thr	Asp	Ile	Ala	Leu	Ser	Thr	Cys	Ile	Leu
65					70					75					80
Pro	Lys	Met	Leu	Gly	Ile	Phe	Trp	Phe	His	Met	Pro	Gln	Ile	Ser	Phe
			85						90					95	
Asp	Ala	Cys	Leu	Leu	Gln	Met	Glu	Leu	Ile	His	Ser	Phe	Gln	Ala	Thr
			100					105					110		
Glu	Ser	Gly	Ile	Leu	Leu	Ala	Met	Ala	Leu	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Cys	Asn	Pro	Leu	Arg	His	Ala	Thr	Ile	Phe	Ser	Pro	Gln	Leu	Thr	Thr
	130					135					140				
Cys	Leu	Gly	Ala	Gly	Ala	Leu	Leu	Arg	Ser	Leu	Ile	Thr	Thr	Phe	Pro
145					150					155					160
Leu	Ile	Leu	Leu	Ile	Lys	Phe	Cys	Leu	Lys	Tyr	Phe	Arg	Thr	Thr	Ile
			165						170					175	
Ile	Ser	His	Ser	Tyr	Cys	Glu	His	Met	Ala	Ile	Val	Lys	Leu	Ala	Ala
		180						185					190		
Gln	Asp	Ile	Arg	Ile	Asn	Lys	Ile	Cys	Gly	Leu	Leu	Val	Ala	Phe	Ala
	195					200						205			
Ile	Leu	Gly	Phe	Asp	Ile	Val	Phe	Ile	Thr	Phe	Ser	Tyr	Val	Arg	Ile
	210				215						220				
Phe	Ile	Thr	Val	Phe	Gln	Leu	Pro	Gln	Lys	Glu	Ala	Arg	Phe	Lys	Ala
225					230					235					240
Phe	Asn	Thr	Cys	Ile	Ala	His	Ile	Cys	Val	Phe	Leu	Gln	Phe	Tyr	Leu
			245						250					255	
Leu	Ala	Phe	Phe	Ser	Phe	Phe	Thr	His	Arg	Phe	Gly	Ala	His	Ile	Pro
		260					265						270		
Pro	Tyr	Val	His	Ile	Leu	Leu	Ser	Asp	Leu	Tyr	Leu	Leu	Val	Pro	Pro
	275						280					285			
Phe	Leu	Asn	Pro	Ile	Val	Tyr	Gly	Ile	Lys	Thr	Lys	Gln	Ile	Arg	Asp
	290					295					300				
Gln	Val	Leu	Lys	Met	Phe	Phe	Ser	Lys	Lys	Pro	Leu				
305					310					315					

<210> 1367  
 <211> 315  
 <212> PRT

<213> Mus musculus

<400> 1367

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Met Ile Lys Phe Asn Gly Ser Val Phe Met Pro Ser Val Leu Thr Leu
 1           5           10           15
Val Gly Ile Pro Gly Leu Glu Ser Val Gln Cys Trp Ile Gly Ile Pro
 20           25           30
Phe Cys Val Met Tyr Ile Ile Ala Met Ile Gly Asn Ser Leu Ile Leu
 35           40           45
Val Ile Ile Lys Ser Glu Lys Ser Leu His Ile Pro Met Tyr Ile Phe
 50           55           60
Leu Ala Ile Leu Ala Val Thr Asp Ile Ala Leu Ser Thr Cys Ile Leu
 65           70           75           80
Pro Lys Met Leu Gly Ile Phe Trp Phe His Met Pro Gln Ile Ser Phe
 85           90           95
Asp Ala Cys Leu Leu Gln Met Glu Leu Ile His Ser Phe Gln Ala Thr
100           105           110
Glu Ser Gly Ile Leu Leu Ala Met Ala Leu Asp Arg Tyr Val Ala Ile
115           120           125
Cys Asn Pro Leu Arg His Ala Thr Ile Phe Ser Pro Gln Leu Thr Thr
130           135           140
Cys Leu Gly Ala Gly Ala Leu Leu Arg Ala Phe Ile Leu Val Ser Pro
145           150           155           160
Ser Ile Leu Leu Ile Lys Cys Arg Leu Lys Tyr Phe Arg Thr Thr Ile
165           170           175
Ile Ser His Ser Tyr Cys Glu His Met Ala Ile Val Lys Leu Ala Ala
180           185           190
Gln Asp Ile Arg Ile Asn Lys Ile Cys Gly Leu Leu Val Ala Phe Ala
195           200           205
Ile Leu Gly Phe Asp Ile Val Phe Ile Thr Phe Ser Tyr Val Arg Ile
210           215           220
Phe Ile Thr Val Phe Gln Leu Pro Gln Lys Glu Ala Arg Phe Lys Ala
225           230           235           240
Phe Asn Thr Cys Ile Ala His Ile Cys Val Phe Leu Gln Phe Tyr Leu
245           250           255
Leu Ala Phe Phe Ser Phe Phe Thr His Arg Phe Gly Ala His Ile Pro
260           265           270
Pro Tyr Val His Ile Leu Leu Ser Asp Leu Tyr Leu Leu Val Pro Pro
275           280           285
Phe Leu Asn Pro Ile Val Tyr Gly Val Lys Thr Lys Gln Ile Arg Asp
290           295           300
Gln Val Leu Lys Met Leu Phe Ser Lys Lys His
305           310           315
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<210> 1368

<211> 312

<212> PRT

<213> Mus musculus

<400> 1368

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Met Ser Glu Ser Leu Pro Val Thr Leu Phe Leu Thr Gly Ile Pro Gly
 1           5           10           15
Leu Glu Phe Ala His Leu Trp Ile Ala Ile Pro Phe Cys Val Met Tyr
 20           25           30
Val Val Ala Leu Leu Gly Asn Ala Ala Leu Ile Leu Ile Ile Gly Thr
 35           40           45
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Glu	Ser	Val	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Cys	Leu	Leu	Ser
50						55					60				
Leu	Thr	Asp	Leu	Ala	Leu	Ser	Ser	Thr	Thr	Val	Pro	Lys	Met	Leu	Ala
65					70					75					80
Ile	Leu	Trp	Leu	His	Ser	Asn	Glu	Ile	Ser	Phe	Gly	Gly	Cys	Leu	Ala
				85					90					95	
Gln	Met	Phe	Cys	Val	His	Ser	Ile	Tyr	Ala	Leu	Glu	Ser	Ser	Val	Leu
			100					105					110		
Leu	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu	Arg
		115					120					125			
Tyr	Thr	Thr	Ile	Leu	Asn	His	Thr	Val	Ile	Ala	Gln	Ile	Ile	Phe	Ala
	130					135					140				
Gly	Ile	Val	Arg	Ser	Val	Ala	Ile	Val	Ser	Pro	Phe	Ile	Phe	Leu	Leu
145					150					155					160
Arg	Arg	Leu	Pro	Tyr	Cys	Gly	His	Arg	Val	Met	Thr	His	Thr	Tyr	Cys
				165					170					175	
Glu	His	Met	Gly	Ile	Ala	Arg	Leu	Ala	Cys	Ala	Asn	Ile	Thr	Val	Asn
			180					185					190		
Ile	Val	Tyr	Gly	Leu	Thr	Val	Ala	Leu	Leu	Ala	Met	Gly	Leu	Asp	Ser
		195					200					205			
Ile	Leu	Ile	Ala	Ile	Ser	Tyr	Gly	Phe	Ile	Leu	Arg	Ala	Val	Phe	Arg
	210					215					220				
Leu	Pro	Ser	Arg	Asp	Ala	Gln	His	Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser
225					230					235					240
His	Leu	Gly	Val	Ile	Leu	Val	Phe	Tyr	Ile	Pro	Ala	Phe	Phe	Ser	Phe
				245					250					255	
Leu	Thr	His	Arg	Phe	Gly	His	Asn	Arg	Val	Pro	Lys	His	Val	His	Ile
			260					265					270		
Phe	Leu	Ala	Asn	Leu	Tyr	Val	Leu	Val	Pro	Pro	Val	Leu	Asn	Pro	Ile
		275					280					285			
Ile	Tyr	Gly	Ala	Arg	Thr	Lys	Glu	Ile	Arg	Ser	Arg	Leu	Leu	Lys	Leu
	290					295					300				
Leu	His	Leu	Gly	Lys	Asp	Leu	Val								
305						310									

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 <212> PRT  
 <213> Mus musculus

<400> 1369

Met	Val	Met	His	Asn	Val	Ser	Ser	Tyr	Asn	Thr	Gly	Pro	Phe	Thr	Leu
1				5					10					15	
Ser	Gly	Ile	Pro	Gly	Leu	Glu	Gln	Tyr	His	Val	Trp	Ile	Ser	Ile	Pro
			20					25					30		
Phe	Cys	Phe	Ile	Tyr	Leu	Val	Ala	Ile	Leu	Gly	Asn	Ser	Ile	Leu	Leu
		35					40					45			
Tyr	Leu	Ile	Ala	Val	Glu	His	Ser	Leu	His	Ser	Pro	Met	Phe	Phe	Phe
	50					55					60				
Leu	Ser	Met	Leu	Ala	Met	Thr	Asp	Leu	Ile	Leu	Ser	Thr	Thr	Cys	Val
65					70					75					80
Pro	Lys	Thr	Leu	Ser	Ile	Phe	Trp	Phe	Gly	Pro	Gln	Glu	Ile	Ser	Phe
				85					90					95	
Pro	Gly	Cys	Leu	Thr	Gln	Leu	Phe	Phe	Leu	His	Tyr	Ser	Phe	Val	Leu
			100					105					110		
Asp	Ser	Ala	Ile	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile

	115		120		125										
Cys	Ser	Pro	Leu	Arg	Tyr	Thr	Thr	Ile	Leu	Thr	Pro	Lys	Thr	Ile	Val
	130					135					140				
Lys	Ile	Ala	Val	Gly	Ile	Ser	Phe	Arg	Ser	Phe	Cys	Val	Phe	Val	Pro
145					150					155					160
Cys	Val	Phe	Leu	Val	Asn	Arg	Leu	Pro	Phe	Cys	Arg	Thr	His	Ile	Ile
			165						170					175	
Ala	His	Thr	Tyr	Cys	Glu	His	Ile	Gly	Val	Ala	Arg	Leu	Ala	Cys	Ala
		180						185					190		
Asp	Ile	Ser	Ile	Asn	Ile	Trp	Tyr	Gly	Phe	Cys	Val	Pro	Ile	Met	Thr
	195					200						205			
Val	Ile	Ile	Asp	Val	Ile	Leu	Ile	Ala	Ile	Ser	Tyr	Thr	Leu	Ile	Leu
	210					215					220				
Cys	Ala	Val	Phe	Arg	Leu	Pro	Ser	Arg	Asp	Ala	Arg	Gln	Lys	Ala	Leu
225					230					235					240
Ser	Thr	Cys	Gly	Ser	His	Val	Cys	Val	Ile	Leu	Met	Phe	Tyr	Ile	Pro
			245						250					255	
Ala	Phe	Phe	Ser	Ile	Leu	Ala	His	Arg	Phe	Gly	Arg	Asn	Val	Pro	Arg
		260						265					270		
Thr	Phe	His	Ile	Met	Phe	Ala	Asn	Leu	Tyr	Val	Ile	Ile	Pro	Pro	Ala
	275						280					285			
Leu	Asn	Pro	Ile	Val	Tyr	Gly	Val	Lys	Thr	Lys	Gln	Ile	Arg	Asp	Lys
	290					295					300				
Ala	Ile	Leu	Leu	Leu	Phe	Pro	Lys								
305					310										

<210> 1370  
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 <212> PRT  
 <213> Mus musculus

<400> 1370

Met	Met	Tyr	Ser	Leu	Met	Leu	Ala	Ser	Arg	Asn	Ser	Ser	Ser	His	Ser
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Thr	Phe	Phe	Ile	Leu	Leu	Gly	Ile	Pro	Gly	Leu	Glu	Asn	Tyr	Gln	Phe
		20						25					30		
Trp	Val	Ala	Phe	Pro	Phe	Cys	Val	Met	Tyr	Ile	Val	Ala	Val	Thr	Gly
	35					40						45			
Asn	Ile	Thr	Ile	Leu	His	Ile	Ile	Arg	Ile	Asp	His	Thr	Leu	His	Glu
50					55					60					
Pro	Met	Tyr	Leu	Phe	Leu	Ala	Met	Leu	Ala	Thr	Thr	Asp	Leu	Val	Leu
65					70					75					80
Ser	Ser	Ser	Thr	Gln	Pro	Lys	Met	Leu	Ala	Ile	Leu	Trp	Phe	His	Asp
			85						90					95	
His	Lys	Ile	Glu	Tyr	His	Ala	Cys	Leu	Ile	Gln	Val	Phe	Phe	Ile	His
		100						105					110		
Ala	Phe	Ser	Ser	Val	Glu	Ser	Gly	Val	Leu	Met	Thr	Met	Ala	Leu	Asp
	115						120					125			
Arg	Tyr	Val	Ala	Ile	Cys	Phe	Pro	Leu	Arg	His	Ser	Ser	Ile	Leu	Thr
130					135						140				
Thr	Ser	Ala	Val	Ile	Lys	Leu	Gly	Ala	Val	Val	Met	Val	Arg	Gly	Leu
145					150					155					160
Leu	Trp	Val	Ser	Pro	Phe	Cys	Phe	Met	Val	Ser	Arg	Met	Pro	Phe	Cys
			165						170					175	
Pro	Asn	Lys	Ile	Ile	Pro	Gln	Ser	Tyr	Cys	Glu	His	Met	Ala	Val	Leu
	180							185					190		

Lys	Leu	Val	Cys	Ala	Asp	Thr	Arg	Val	Asn	Arg	Gly	Tyr	Gly	Leu	Phe
	195						200				205				
Val	Ala	Phe	Ser	Val	Val	Gly	Phe	Asp	Ile	Ile	Val	Ile	Ser	Val	Ser
	210					215					220				
Tyr	Val	Met	Ile	Leu	Arg	Ala	Val	Leu	Arg	Leu	Pro	Ser	Gly	Glu	Ala
225					230					235					240
Arg	Leu	Lys	Ala	Phe	Gly	Thr	Cys	Ala	Ser	His	Ile	Gly	Val	Ile	Leu
			245						250					255	
Thr	Leu	Tyr	Ile	Pro	Ala	Leu	Phe	Thr	Phe	Leu	Thr	His	Arg	Phe	Gly
			260					265					270		
His	His	Val	Pro	Arg	Val	Val	His	Ile	Met	Phe	Ala	Asn	Val	Tyr	Leu
		275					280					285			
Leu	Val	Pro	Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr	Gly	Val	Arg	Thr	Lys
	290					295					300				
Gln	Ile	Arg	Asp	Arg	Val	Thr	Arg	Gly	Phe	Cys	Val	Lys	Gly	Ser	
305					310					315					

<210> 1371  
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 <212> PRT  
 <213> Mus musculus

<400> 1371

Met	Met	His	Ser	Leu	Met	Leu	Ala	Ser	Arg	Asn	Asn	Ser	Ser	His	Ser
1				5					10					15	
Thr	Phe	Phe	Ile	Leu	Leu	Gly	Ile	Pro	Gly	Leu	Glu	Asn	Tyr	Gln	Phe
			20					25					30		
Trp	Val	Ala	Phe	Pro	Phe	Cys	Val	Met	Tyr	Ile	Val	Ala	Val	Thr	Gly
		35				40						45			
Asn	Ile	Thr	Ile	Leu	His	Ile	Ile	Arg	Ile	Asp	His	Thr	Leu	His	Glu
	50				55					60					
Pro	Met	Tyr	Leu	Phe	Leu	Ala	Met	Leu	Ala	Thr	Thr	Asp	Leu	Val	Leu
65					70				75						80
Ser	Ser	Ser	Thr	Gln	Pro	Lys	Met	Leu	Ala	Ile	Leu	Trp	Phe	His	Asp
				85					90					95	
His	Lys	Ile	Glu	Tyr	His	Ala	Cys	Leu	Ile	Gln	Val	Phe	Phe	Ile	His
			100					105					110		
Ala	Phe	Ser	Ser	Val	Glu	Ser	Gly	Val	Leu	Met	Asp	Met	Ala	Leu	Asp
		115					120					125			
Arg	Tyr	Val	Ala	Ile	Cys	Phe	Pro	Leu	Arg	His	Ser	Ser	Ile	Leu	Thr
	130					135					140				
Thr	Ser	Val	Val	Ile	Lys	Leu	Gly	Val	Ala	Val	Met	Val	Arg	Gly	Leu
145					150					155					160
Leu	Trp	Val	Ser	Pro	Phe	Cys	Phe	Met	Val	Ser	Arg	Met	Pro	Phe	Cys
				165					170					175	
Pro	Asn	Lys	Val	Ile	Pro	Gln	Ser	Tyr	Cys	Glu	His	Met	Ala	Val	Leu
			180					185					190		
Lys	Leu	Val	Cys	Ala	Asp	Thr	Arg	Val	Asn	Arg	Gly	Tyr	Gly	Leu	Phe
		195					200					205			
Val	Ala	Phe	Ser	Val	Ala	Val	Phe	Asp	Leu	Ala	Val	Ile	Ser	Val	Ser
	210						215				220				
Tyr	Ala	Met	Ile	Leu	Arg	Ala	Val	Leu	Arg	Leu	Pro	Ser	Gly	Glu	Ala
225					230					235					240
Arg	Leu	Lys	Ala	Phe	Gly	Thr	Cys	Ala	Ser	His	Ile	Gly	Val	Ile	Leu
			245						250					255	
Thr	Leu	Tyr	Ile	Pro	Ala	Leu	Phe	Thr	Phe	Leu	Thr	His	Arg	Phe	Gly

		260						265				270					
His	His	Val	Pro	Arg	Ile	Val	His	Ile	Met	Phe	Ala	Asn	Val	Tyr	Leu		
		275					280					285					
Leu	Val	Pro	Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr	Gly	Val	Arg	Thr	Lys		
	290					295					300						
Gln	Ile	Arg	Asp	Arg	Val	Thr	Gln	Ala	Phe	Cys	Gly	Lys	Gly	Ser			
305					310					315							

<210> 1372  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1372

Met	Ile	Leu	Pro	Asn	Asp	Thr	Gln	Phe	His	Pro	Ser	Thr	Phe	Leu	Leu		
1				5				10						15			
Leu	Gly	Ile	Pro	Gly	Leu	Glu	Ser	Leu	His	Ile	Trp	Ile	Gly	Phe	Pro		
			20					25					30				
Phe	Cys	Val	Val	Tyr	Met	Ile	Ala	Leu	Leu	Gly	Asn	Leu	Thr	Ile	Leu		
	35						40					45					
Phe	Val	Ile	Lys	Thr	Glu	Ser	Ser	Leu	His	Gln	Pro	Met	Phe	Tyr	Phe		
	50					55					60						
Leu	Ala	Met	Leu	Ala	Thr	Ile	Asp	Leu	Gly	Leu	Ser	Thr	Ala	Thr	Ile		
65					70					75					80		
Pro	Lys	Met	Leu	Gly	Ile	Phe	Trp	Ile	Asn	Leu	Arg	Glu	Ile	Leu	Phe		
			85						90					95			
Glu	Asp	Cys	Leu	Ile	Gln	Met	Phe	Phe	Ile	His	Lys	Phe	Thr	Leu	Met		
			100					105					110				
Glu	Ser	Thr	Val	Leu	Leu	Ala	Met	Ala	Tyr	Asp	His	Tyr	Val	Ala	Ile		
		115					120					125					
Cys	Ile	Pro	Leu	Arg	Tyr	Ser	Thr	Ile	Leu	Thr	Asn	Lys	Val	Val	Ser		
	130					135					140						
Met	Ile	Gly	Ile	Ala	Val	Leu	Val	Arg	Ala	Ile	Ile	Phe	Val	Ile	Pro		
145					150					155					160		
Phe	Ile	Phe	Leu	Ile	Leu	Arg	Leu	Pro	Phe	Cys	Gly	His	His	Ile	Ile		
			165						170					175			
Pro	His	Thr	Tyr	Cys	Glu	His	Met	Gly	Leu	Ala	Arg	Leu	Ser	Cys	Ala		
		180						185					190				
Ser	Val	Lys	Ala	Asn	Val	Ile	Tyr	Gly	Leu	Cys	Ala	Ile	Cys	Asn	Leu		
	195					200						205					
Leu	Phe	Asp	Ile	Val	Ala	Ile	Val	Leu	Ser	Tyr	Ile	Gln	Ile	Leu	Arg		
	210					215					220						
Val	Val	Phe	His	Leu	Pro	Ser	Arg	Glu	Ala	Arg	Leu	Lys	Ser	Leu	Asn		
225					230					235					240		
Thr	Cys	Gly	Ser	His	Val	Cys	Val	Ile	Leu	Ala	Phe	Tyr	Thr	Pro	Ala		
			245						250					255			
Leu	Phe	Ser	Phe	Met	Thr	His	Arg	Phe	Gly	Arg	Asn	Val	Pro	Arg	Tyr		
			260					265					270				
Ile	His	Ile	Leu	Leu	Ala	Asn	Leu	Tyr	Val	Val	Val	Pro	Pro	Met	Leu		
	275					280						285					
Asn	Pro	Val	Ile	Tyr	Gly	Val	Arg	Thr	Lys	Gln	Ile	Tyr	Asp	Arg	Val		
	290					295					300						
Lys	Lys	Ile	Leu	Leu	Gln	Val	Arg	Gly	Lys	Glu	Lys	Glu					
305					310					315							

<210> 1373  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1373  
 Met Ser Cys Ala Pro Asn Ala Ser His Ser Pro Ile Phe Leu Leu Leu  
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 Gly Phe Ser Arg Ala Gly Val Pro His Thr Phe Leu Phe Leu Phe  
 20 25 30  
 Leu Phe Ile Tyr Leu Thr Thr Ile Leu Gly Asn Val Thr Leu Val Leu  
 35 40 45  
 Leu Ile Ser Trp Asp Ser Arg Leu His Ser Pro Met Tyr Tyr Leu Leu  
 50 55 60  
 Arg Gly Leu Ser Met Ile Asp Leu Gly Leu Ser Thr Val Thr Leu Pro  
 65 70 75 80  
 Gln Leu Leu Val His Leu Ser Ser Asp Ser Pro Ala Ile Pro Ala Ala  
 85 90 95  
 Arg Cys Leu Thr Gln Phe Phe Phe Phe Tyr Ala Phe Gly Val Thr Asp  
 100 105 110  
 Thr Leu Val Ile Ala Val Met Ala Leu Asp Arg Tyr Val Ala Ile Cys  
 115 120 125  
 Asp Pro Leu His Tyr Ala Leu Val Met Asn Arg Gln Ile Cys Ala Arg  
 130 135 140  
 Leu Leu Ala Leu Ser Trp Val Val Ser Ile Val His Thr Met Leu His  
 145 150 155 160  
 Val Gly Leu Ile Leu Pro Leu Cys Trp Ala Gly Asp Ala Gly Gly Asn  
 165 170 175  
 Val Lys Leu Pro His Phe Phe Cys Asp His Arg Pro Leu Leu Arg Ala  
 180 185 190  
 Ser Cys Ser Asp Thr His Ser Asn Glu Leu Ala Ile Phe Leu Glu Gly  
 195 200 205  
 Gly Phe Leu Met Leu Gly Pro Cys Ser Leu Ile Val Leu Ser Tyr Ala  
 210 215 220  
 Arg Ile Gly Ile Thr Ile Leu Arg Leu Pro Ser Ala Ala Gly Arg Arg  
 225 230 235 240  
 Arg Ala Val Ser Thr Cys Gly Ser His Leu Thr Met Val Gly Phe Leu  
 245 250 255  
 Tyr Gly Thr Ile Ile Trp Val Tyr Phe Gln Pro Pro Ser Gln Asn Ser  
 260 265 270  
 Arg Asn Gln Asp Met Val Ala Ser Val Met Tyr Thr Ala Ile Thr Pro  
 275 280 285  
 Leu Ala Asn Pro Phe Val Tyr Ser Leu Arg Asn Lys Asp Val Lys Gly  
 290 295 300  
 Ala Leu His Arg Leu Leu Arg Gln Gly Arg Val Asp Ser  
 305 310 315

<210> 1374  
 <211> 322  
 <212> PRT  
 <213> Mus musculus

<400> 1374  
 Met Leu Leu Leu Asn Gln Thr Glu Val Thr Pro Val Ser Phe Ile Leu  
 1 5 10 15  
 Asn Gly Ile Pro Gly Leu Glu Glu Met His Ile Trp Ile Ser Phe Pro





Thr	Ile	Pro	Lys	Thr	Leu	Cys	Ile	Phe	Trp	Phe	His	Leu	Lys	Glu	Ile
				85					90					95	
Gly	Phe	Asp	Asp	Cys	Leu	Val	Gln	Met	Phe	Phe	Ile	His	Thr	Phe	Thr
			100					105					110		
Gly	Met	Glu	Ser	Gly	Val	Leu	Met	Leu	Met	Ala	Leu	Asp	Arg	Tyr	Val
		115					120					125			
Ala	Ile	Cys	Tyr	Pro	Leu	Arg	Tyr	Ser	Thr	Ile	Leu	Thr	Asn	Pro	Ile
	130					135					140				
Ile	Ala	Lys	Ile	Gly	Leu	Ala	Thr	Phe	Leu	Arg	Gly	Val	Leu	Leu	Ile
145					150					155					160
Ile	Pro	Phe	Thr	Phe	Leu	Thr	Lys	Arg	Leu	Pro	Tyr	Cys	Arg	Gly	Asn
			165						170					175	
Ile	Ile	Asn	His	Thr	Tyr	Cys	Asp	His	Met	Ser	Val	Ala	Lys	Leu	Ser
		180						185					190		
Cys	Gly	Asn	Val	Lys	Val	Asn	Ala	Ile	Tyr	Gly	Leu	Met	Val	Ala	Leu
		195					200					205			
Leu	Ile	Gly	Gly	Phe	Asp	Ile	Leu	Cys	Ile	Thr	Ile	Ser	Tyr	Thr	Met
	210					215					220				
Ile	Leu	Arg	Ala	Val	Val	Ser	Leu	Ser	Ser	Ala	Asp	Ala	Arg	Gln	Lys
225				230						235					240
Ala	Phe	Ser	Thr	Cys	Thr	Ala	His	Ile	Cys	Ala	Ile	Val	Phe	Ser	Tyr
			245						250					255	
Ser	Pro	Ala	Phe	Phe	Ser	Phe	Phe	Ser	His	Arg	Phe	Gly	Gly	His	Thr
		260						265					270		
Ile	Pro	Pro	Ser	Cys	His	Ile	Ile	Val	Ala	Asn	Ile	Tyr	Leu	Leu	Leu
	275					280						285			
Pro	Pro	Thr	Met	Asn	Pro	Val	Val	Tyr	Gly	Val	Lys	Thr	Lys	Gln	Ile
	290					295					300				
Arg	Asp	Cys	Val	Ile	Arg	Ile	Leu	Ser	Gly	Ser	Lys	Asp	Ser	Lys	Ala
305					310					315					320
His	Gly	Ile													

<210> 1376  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 1376

Met	Pro	Ile	Met	Ala	Thr	Phe	Asn	Leu	Ser	Ser	Phe	Asn	Pro	Gly	Phe
1				5					10					15	
Phe	Ile	Leu	Leu	Gly	Ile	Pro	Gly	Leu	Glu	Gln	Phe	His	Val	Trp	Ile
		20						25					30		
Gly	Ile	Pro	Phe	Phe	Ile	Ile	Tyr	Leu	Val	Ala	Phe	Ala	Gly	Asn	Ser
		35					40					45			
Ile	Leu	Leu	Tyr	Leu	Ile	Phe	Met	Glu	Arg	Ser	Leu	His	Glu	Pro	Met
	50					55					60				
Phe	Phe	Phe	Leu	Ser	Leu	Leu	Asp	Gly	Thr	Asp	Leu	Ile	Leu	Cys	Asn
65					70					75					80
Thr	Cys	Val	Pro	Lys	Thr	Phe	Ser	Ile	Phe	Trp	Leu	Gly	Pro	Gln	His
			85						90					95	
Ile	Thr	Phe	Pro	Gly	Cys	Leu	Thr	Gln	Met	Phe	Phe	Leu	His	Phe	Ser
		100						105					110		
Phe	Ala	Met	Asp	Ser	Ala	Ile	Leu	Leu	Ser	Met	Ala	Phe	Asp	Arg	Tyr
		115					120					125			
Val	Ala	Ile	Cys	Phe	Pro	Leu	Arg	Tyr	Thr	Thr	Ile	Leu	Thr	His	Gln

130		135		140																
Ile	Val	Ile	Lys	Ile	Val	Val	Ala	Ile	Ile	Ser	Arg	Ser	Phe	Cys	Ile					
145		150								155					160					
Ile	Phe	Pro	Cys	Val	Phe	Leu	Leu	Lys	Arg	Leu	Pro	Phe	Cys	Arg	Glu					
		165							170						175					
Leu	Val	Ile	Pro	His	Thr	Tyr	Cys	Glu	His	Ile	Gly	Ile	Ala	Arg	Leu					
		180							185					190						
Ala	Cys	Ala	Asp	Ile	Ser	Ile	Asn	Ile	Trp	Tyr	Gly	Phe	Ala	Val	Pro					
		195					200					205								
Ile	Met	Thr	Val	Met	Ser	Asp	Leu	Ile	Leu	Ile	Gly	Ile	Ser	Tyr	Thr					
	210					215					220									
Val	Ile	Leu	Arg	Ala	Val	Phe	Asn	Leu	Pro	Ser	Gln	Asp	Ala	Arg	Lys					
225					230					235					240					
Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser	His	Val	Cys	Val	Ile	Leu	Ile	Phe					
			245						250					255						
Tyr	Thr	Pro	Ala	Ile	Phe	Ser	Val	Leu	Val	His	Arg	Phe	Gly	His	Asn					
		260					265						270							
Ile	Pro	His	Ser	Phe	His	Ile	Leu	Phe	Ala	Asn	Leu	Tyr	Val	Ser	Ile					
	275					280						285								
Pro	Pro	Ala	Ile	Asn	Pro	Val	Ile	Tyr	Gly	Val	Lys	Thr	Lys	Gln	Ile					
	290				295						300									
Arg	Asp	Lys	Ile	Asn	Leu	Phe	Phe	Pro	Lys	Asp	Asn	His								
305				310					315											

<210> 1377  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 1377

Met	Thr	Met	Ser	Ser	Asn	His	Thr	Asn	Leu	Arg	Asp	Ile	Trp	Tyr	Thr					
1				5					10					15						
Met	Ile	Gly	Ile	Pro	Gly	Leu	Glu	Asp	Ala	His	Val	Trp	Leu	Ser	Ile					
		20						25					30							
Pro	Ile	Cys	Ser	Met	Tyr	Ile	Val	Ala	Leu	Ile	Gly	Asn	Thr	Leu	Leu					
		35				40						45								
Ile	Phe	Leu	Ile	Phe	Thr	Glu	His	Ser	Leu	His	Glu	Pro	Met	Tyr	Leu					
	50				55						60									
Phe	Leu	Ser	Met	Leu	Ala	Leu	Ala	Asp	Ile	Ile	Leu	Ser	Thr	Val	Thr					
65				70					75					80						
Thr	Pro	Lys	Val	Leu	Ala	Ile	Phe	Trp	Phe	Gln	Ala	Gly	Gly	Ile	Ser					
			85					90					95							
Phe	Thr	Ser	Cys	Val	Ser	Gln	Met	Phe	Phe	Leu	His	Phe	Met	Phe	Val					
		100						105					110							
Thr	Glu	Ser	Ala	Ile	Leu	Leu	Ala	Met	Ala	Ile	Asp	Arg	Tyr	Ile	Ala					
	115					120						125								
Ile	Cys	Phe	Pro	Leu	Arg	Tyr	Thr	Thr	Ile	Leu	Thr	Pro	Ser	Val	Ile					
	130				135						140									
Cys	Arg	Met	Gly	Ile	Ala	Ser	Val	Thr	Arg	Ser	Phe	Leu	Ile	Ile	Phe					
145				150						155					160					
Pro	Leu	Val	Phe	Leu	Val	Tyr	Arg	Leu	Asn	Tyr	Cys	Gly	Arg	Asn	Ile					
			165					170						175						
Ile	Arg	His	Ser	Tyr	Cys	Glu	His	Met	Gly	Ile	Ala	Arg	Leu	Ala	Cys					
		180						185					190							
Asp	Ser	Ile	Lys	Val	Asn	Ile	Tyr	Tyr	Gly	Met	Thr	Val	Pro	Leu	Phe					
	195					200						205								

Ser	Ile	Gly	Leu	Asp	Ile	Met	Leu	Ile	Ile	Ile	Ser	Tyr	Thr	Leu	Ile
210						215					220				
Leu	His	Thr	Val	Phe	Arg	Ile	Pro	Ser	Gln	Asn	Ala	Arg	Arg	Lys	Ala
225					230					235					240
Leu	Gly	Thr	Cys	Gly	Ser	His	Val	Cys	Val	Ile	Leu	Leu	Phe	Tyr	Thr
			245						250					255	
Pro	Ser	Leu	Phe	Thr	Phe	Phe	Ala	His	Arg	Phe	Gly	Gly	His	Thr	Ile
			260				265						270		
Pro	Arg	His	Met	His	Ile	Leu	Phe	Ala	Asn	Leu	Tyr	Val	Val	Val	Pro
		275					280					285			
Pro	Ala	Leu	Asn	Pro	Ile	Ile	Tyr	Gly	Val	Lys	Thr	Lys	Gln	Ile	Gln
	290					295					300				
Asp	Arg	Phe	Phe	Gln	Leu	Phe	Ser	Phe	Thr	Lys	Ala	Cys	Phe		
305					310					315					

<210> 1378  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1378

Met	Pro	Ser	Cys	Asn	Asn	Ser	Ile	Pro	Gln	Pro	Leu	Ile	Phe	Ile	Leu
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Ala	Gly	Ile	Pro	Gly	Leu	Glu	Ser	Ser	His	Gly	Trp	Phe	Ser	Ile	Ser
			20				25					30			
Phe	Phe	Leu	Ile	Phe	Val	Val	Thr	Ile	Ile	Gly	Asn	Val	Thr	Ile	Leu
	35					40					45				
His	Ile	Ile	Trp	Ile	Glu	Lys	Thr	Leu	His	Glu	Pro	Met	Phe	Leu	Leu
	50				55					60					
Leu	Ala	Thr	Leu	Ser	Val	Val	Asp	Leu	Cys	Leu	Val	Thr	Val	Thr	Val
65					70					75					80
Pro	Arg	Met	Leu	Gly	Ile	Phe	Trp	Leu	Asn	Ala	Lys	Glu	Ile	Ser	Leu
			85					90					95		
Glu	Ala	Cys	Leu	Thr	Gln	Met	Phe	Phe	Ile	Pro	Ser	Phe	Tyr	Val	Met
		100					105						110		
Glu	Ser	Gly	Ile	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg	Phe	Ala	Ala	Ile
	115					120						125			
Trp	Tyr	Pro	Leu	Arg	Tyr	Thr	Thr	Ile	Leu	Asp	Ser	Asn	Met	Leu	Val
	130				135						140				
Lys	Met	Ala	Leu	Ala	Ile	Leu	Ala	Arg	Ala	Val	Ala	Val	Val	Thr	Pro
145					150					155					160
Ala	Pro	Ile	Leu	Thr	Lys	Arg	Leu	Glu	Arg	Phe	Gln	Thr	Gln	Val	Ile
			165					170						175	
Ser	Tyr	Ser	Tyr	Cys	Ala	Tyr	Met	Ala	Val	Val	Met	Ile	Ala	Cys	Gly
		180					185						190		
Asp	Ile	Ser	Asn	His	Ile	Val	Tyr	Gly	Leu	Met	Val	Ile	Val	Ala	Ser
	195					200						205			
Val	Gly	Ile	Asp	Leu	Phe	Leu	Val	Ile	Leu	Ser	Tyr	Thr	Leu	Ile	Leu
	210					215					220				
Arg	Ala	Val	Phe	His	Ile	Pro	Ser	Trp	Gln	Ala	Arg	Ser	Lys	Ala	Leu
225					230					235					240
Ser	Thr	Cys	Gly	Ser	His	Leu	Cys	Val	Ile	Gly	Leu	Phe	Tyr	Ser	Pro
			245					250						255	
Val	Val	Phe	Ser	Val	Leu	Ser	Gln	Ile	Leu	Gly	Tyr	His	Met	Ala	Pro
		260					265					270			
Tyr	Leu	Gln	Ile	Ile	Ile	Asp	Asn	Leu	Tyr	Phe	Leu	Val	Pro	Pro	Met

	275		280		285										
Val	Asn	Pro	Leu	Ile	Tyr	Ala	Val	Arg	Thr	Lys	Gln	Ile	Arg	Glu	Arg
	290		295		300										
Val	Leu	Arg	Ile	Leu	Asn	Cys	Glu	Arg	Lys						
305					310										

<210> 1379  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 1379

Met	Ile	Arg	Arg	Gln	His	Met	Glu	Ala	Gln	Ser	Asn	Thr	Ser	Ser	Ile
1				5					10					15	
Leu	Ala	Pro	Asp	Phe	Leu	Leu	Ile	Cys	Phe	Pro	Asn	Tyr	Gln	Thr	Trp
			20					25					30		
Gln	His	Trp	Leu	Ser	Leu	Pro	Leu	Ser	Leu	Leu	Phe	Leu	Leu	Ala	Met
		35					40					45			
Gly	Ala	Asn	Ala	Thr	Leu	Leu	Ile	Thr	Ile	Arg	Met	Glu	Ala	Ser	Leu
	50					55					60				
His	Glu	Pro	Met	Tyr	Tyr	Leu	Leu	Ser	Leu	Leu	Ser	Leu	Leu	Asp	Ile
65					70					75					80
Val	Leu	Cys	Leu	Thr	Val	Ile	Pro	Lys	Val	Leu	Ala	Ile	Phe	Trp	Phe
				85					90					95	
Asp	Asn	Lys	Ser	Ile	Gly	Phe	Ser	Ser	Cys	Phe	Leu	Gln	Met	Phe	Val
			100					105					110		
Met	Asn	Ser	Phe	Leu	Thr	Met	Glu	Ser	Cys	Thr	Phe	Met	Val	Met	Ala
		115					120					125			
Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	Gln	Tyr	Pro	Ser	Ile
	130					135					140				
Ile	Thr	Asp	Gln	Phe	Val	Val	Arg	Ala	Ala	Ile	Phe	Val	Ala	Ala	Arg
145					150					155					160
Asn	Gly	Ile	Leu	Thr	Met	Pro	Ile	Pro	Ile	Leu	Ser	Ser	Gln	Leu	Arg
				165					170					175	
Tyr	Cys	Ala	Arg	Ile	Ile	Arg	Asn	Cys	Ile	Cys	Thr	Asn	Met	Ser	Val
			180					185					190		
Ser	Lys	Leu	Ser	Cys	Asp	Asp	Ile	Thr	Phe	Asn	Lys	Leu	Tyr	Gln	Phe
		195					200					205			
Val	Ile	Gly	Trp	Thr	Leu	Leu	Gly	Ser	Asp	Leu	Ile	Leu	Ile	Val	Leu
	210					215					220				
Ser	Tyr	Ser	Phe	Ile	Leu	Lys	Ala	Val	Leu	Arg	Ile	Lys	Ala	Glu	Gly
225					230					235					240
Ala	Val	Ala	Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser	His	Phe	Ile	Leu	Ile
				245					250					255	
Leu	Phe	Phe	Ser	Thr	Val	Leu	Leu	Val	Leu	Val	Ile	Thr	Asn	Leu	Ala
			260					265					270		
Arg	Glu	Arg	Ile	Pro	Pro	Asp	Val	Pro	Ile	Leu	Leu	Asn	Ile	Leu	His
		275					280						285		
His	Leu	Ile	Pro	Pro	Ala	Leu	Asn	Pro	Ile	Val	Tyr	Gly	Val	Arg	Thr
	290					295					300				
Arg	Glu	Ile	Lys	Gln	Gly	Ile	Arg	Asn	Leu	Leu	Arg	Arg	Arg	Leu	
305					310					315					

<210> 1380  
 <211> 315

<212> PRT

<213> Mus musculus

<400> 1380

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Leu Leu Asn Cys Phe Val Arg Ser Pro Ser Trp Gln Leu Trp Leu Ser
      20      25      30
Leu Pro Leu Ser Leu Leu Phe Leu Ala Met Gly Ala Asn Ala Ile
      35      40      45
Leu Leu Ile Thr Ile Arg Met Glu Ala Ser Leu His Glu Pro Met Tyr
      50      55      60
Tyr Leu Leu Ser Leu Leu Ser Met Leu Asp Ile Ile Leu Cys Leu Thr
65      70      75      80
Val Ile Pro Lys Val Leu Ala Ile Phe Trp Phe Asp Leu Arg Ala Ile
      85      90      95
Gly Phe Pro Ala Cys Phe Leu Gln Met Tyr Ile Met Asn Ser Phe Leu
      100      105      110
Ala Met Glu Ser Cys Thr Phe Met Ile Met Ala Phe Asp Arg Tyr Ile
      115      120      125
Ala Ile Cys His Pro Leu Arg Tyr Pro Ser Ile Ile Thr Asp Gln Phe
      130      135      140
Val Val Lys Ala Ala Thr Phe Ile Leu Val Arg Asn Val Leu Ile Thr
145      150      155      160
Leu Pro Ile Pro Ile Leu Ser Ala Arg Leu His Tyr Cys Gly Arg Asn
      165      170      175
Val Ile Glu Asn Cys Ile Cys Ala Asn Met Ser Val Ser Arg Leu Ser
      180      185      190
Cys Asn Asp Val Asn Val Asn Arg Leu Tyr Gln Phe Ala Ile Gly Trp
      195      200      205
Thr Leu Leu Gly Ser Asp Leu Phe Leu Ile Phe Leu Ser Tyr Thr Leu
      210      215      220
Ile Leu Arg Ala Val Leu Arg Leu Lys Ala Glu Gly Ala Val Ala Lys
225      230      235      240
Ala Leu Ser Thr Cys Gly Ser His Phe Ile Leu Ile Leu Phe Phe Ser
      245      250      255
Thr Ile Leu Leu Val Phe Ile Leu Thr His Val Ala Lys Arg Lys Val
      260      265      270
Ser Ser Asp Val Pro Ile Leu Leu Asn Val Leu His His Val Ile Pro
      275      280      285
Ala Ala Leu Asn Pro Ile Val Tyr Gly Val Arg Thr Gln Glu Ile Lys
      290      295      300
Gln Gly Ile Lys Lys Leu Leu Lys Lys Gly Trp
305      310      315
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<210> 1381

<211> 317

<212> PRT

<213> Mus musculus

<400> 1381

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Met Leu Ile Ser Asn Asn Ser Tyr Glu Ala Pro Gln Ser Phe Ile Leu
 1      5      10      15
Asn Gly Ile Pro Gly Leu Glu Ala Val His Ile Trp Ile Ser Leu Pro
      20      25      30
Leu Cys Thr Met Tyr Ile Ile Ser Leu Val Gly Asn Leu Gly Leu Val
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Phe	Leu	Leu	Thr	Ile	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
	115						120					125			
Pro	Met	Arg	Tyr	Thr	Val	Ile	Met	Asn	Tyr	Gln	Leu	Cys	Gly	Phe	Leu
	130					135					140				
Val	Leu	Val	Ser	Trp	Ile	Val	Ser	Val	Leu	His	Ala	Leu	Phe	Gln	Ser
145					150					155					160
Leu	Met	Met	Leu	Glu	Leu	Pro	Phe	Cys	Thr	Gln	Pro	Glu	Ile	Pro	His
				165					170					175	
Phe	Phe	Cys	Glu	Pro	Asn	Gln	Val	Ile	Gln	Leu	Thr	Cys	Ser	Asp	Ala
			180					185					190		
Phe	Leu	Asn	Asp	Met	Val	Ile	Tyr	Phe	Thr	Leu	Val	Leu	Leu	Ala	Ile
	195						200					205			
Val	Pro	Leu	Ala	Gly	Val	Phe	Tyr	Ser	Tyr	Phe	Lys	Ile	Val	Ser	Ser
	210					215					220				
Ile	Arg	Ala	Met	Ser	Ser	Val	His	Gly	Lys	Tyr	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Leu	Val	Val	Ser	Leu	Phe	Tyr	Cys	Thr	Gly	Leu
				245					250					255	
Gly	Val	Tyr	Leu	Ser	Ser	Ala	Ala	Asn	His	Gly	Ser	Gln	Thr	Ser	Ala
			260					265					270		
Thr	Ala	Ser	Val	Thr	Tyr	Thr	Val	Val	Thr	Pro	Met	Met	Asn	Pro	Phe
	275						280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Ser	Ala	Leu	Lys	Arg	Leu
	290				295						300				
Phe	Val	Arg	Lys	Leu											
305															

<210> 1383  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 1383

Met	Glu	Thr	Gly	Asn	Asp	Thr	Gln	Leu	Ser	Glu	Phe	Phe	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Glu	Asn	Gln	Pro	Gln	Ile	Gln	Pro	Val	Ile	Phe	Gly	Leu	Phe
			20					25					30		
Leu	Phe	Met	Tyr	Ile	Leu	Thr	Phe	Thr	Gly	Asn	Leu	Leu	Ile	Ile	Met
	35					40					45				
Ala	Ile	Ile	Val	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu
	50					55					60				
Ser	Asn	Leu	Ser	Phe	Val	Asp	Ile	Cys	Phe	Thr	Ser	Thr	Thr	Val	Pro
65					70					75					80
Gln	Met	Leu	Val	Asn	Ile	His	Thr	Gln	Ser	Lys	Ala	Ile	Thr	Tyr	Ala
				85					90					95	
Gly	Cys	Ile	Ile	Gln	Met	Tyr	Phe	Leu	Leu	Leu	Phe	Ser	Gly	Leu	Asp
			100					105					110		
Ile	Phe	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
	115					120						125			
His	Pro	Leu	His	Tyr	Met	Ile	Ile	Met	Ser	Thr	Arg	Arg	Cys	Gly	Leu
	130					135					140				
Met	Ile	Leu	Ala	Cys	Trp	Ile	Ile	Gly	Val	Ile	Asn	Ser	Leu	Leu	His
145					150					155					160
Thr	Phe	Leu	Val	Leu	Arg	Leu	Ser	Phe	Cys	Thr	Asn	Leu	Glu	Ile	Pro
				165					170					175	
His	Phe	Phe	Cys	Glu	Leu	Asn	Gln	Val	Val	His	Gln	Ala	Cys	Ser	Asp

			180				185				190				
Thr	Phe	Leu	Asn	Asp	Met	Val	Ile	Tyr	Ile	Thr	Ala	Met	Leu	Leu	Ala
		195					200					205			
Val	Gly	Pro	Phe	Ser	Gly	Ile	Leu	Tyr	Ser	Tyr	Ser	Arg	Ile	Val	Ser
	210					215					220				
Ser	Ile	Cys	Ala	Ile	Ser	Ser	Val	Gln	Gly	Lys	Tyr	Lys	Ala	Phe	Ser
225					230					235					240
Thr	Cys	Ala	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Cys	Thr	Leu
				245					250					255	
Leu	Gly	Val	Tyr	Leu	Ser	Ser	Ala	Val	Thr	Gln	Asn	Ser	His	Ala	Thr
			260					265					270		
Ala	Thr	Ala	Ser	Leu	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro
		275					280					285			
Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Thr	Ala	Leu	Lys	Ile
	290					295					300				
Leu	Leu	Gly	Ser	Val	Thr	Arg	Ser	Arg	Ser	Met	Asp	Ser	Pro	Ser	
305					310					315					

<210> 1384  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 1384

Met	Glu	Pro	Gly	Asn	Asp	Thr	Gln	Leu	Ser	Glu	Phe	Phe	Leu	Leu	Glu
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Leu	Ser	Glu	Asn	Gln	Pro	Gln	Ile	Gln	Pro	Leu	Ile	Phe	Gly	Leu	Phe
			20					25				30			
Leu	Ser	Met	Tyr	Leu	Val	Thr	Val	Thr	Gly	Asn	Leu	Leu	Ile	Ile	Met
		35					40				45				
Ala	Ile	Thr	Ala	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Ile	Phe	Leu
	50					55				60					
Ser	Asn	Leu	Ser	Phe	Val	Asp	Ile	Cys	Phe	Thr	Ser	Thr	Thr	Val	Pro
65				70				75						80	
Gln	Met	Leu	Val	Thr	Ile	His	Thr	Gln	Ser	Lys	Ala	Ile	Thr	Tyr	Ala
			85					90					95		
Asn	Cys	Ile	Thr	Gln	Val	Tyr	Phe	Leu	Leu	Phe	Ser	Val	Leu	Asp	
		100					105					110			
Ile	Phe	Leu	Thr	Val	Met	Ala	Tyr	Asp	His	Tyr	Val	Ala	Ile	Cys	
	115					120					125				
His	Pro	Leu	His	Tyr	Met	Ile	Ile	Met	Asn	Thr	Arg	Arg	Cys	Gly	Leu
	130					135					140				
Met	Ile	Leu	Ala	Cys	Trp	Ile	Ile	Gly	Val	Ile	Asn	Ser	Leu	Leu	His
145				150						155				160	
Thr	Phe	Leu	Ala	Leu	Arg	Leu	Ser	Phe	Cys	Thr	Asp	Leu	Glu	Ile	Pro
			165					170						175	
His	Phe	Tyr	Cys	Glu	Leu	Asn	Gln	Val	Val	His	His	Ala	Cys	Ser	Asp
		180						185				190			
Ile	Ser	Leu	Asn	Asp	Met	Val	Ile	Tyr	Ile	Ala	Ala	Met	Leu	Leu	Val
	195					200						205			
Val	Gly	Pro	Leu	Ser	Gly	Ile	Leu	Tyr	Ser	Tyr	Ser	Lys	Ile	Val	Ser
	210					215					220				
Ser	Ile	Cys	Ala	Ile	Ser	Ser	Val	Gln	Gly	Lys	Tyr	Lys	Ala	Phe	Ser
225					230					235					240
Thr	Cys	Ala	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Cys	Thr	Leu
				245					250					255	





<210> 1386  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1386  
 Met Arg Gly Glu Asn Ile Thr Lys Val Ser Thr Phe Ile Leu Leu Gly  
 1 5 10 15  
 Phe Pro Thr Ala Pro Glu Leu Gln Tyr Leu Leu Phe Leu Leu Phe Leu  
 20 25 30  
 Leu Ala Tyr Leu Phe Val Leu Val Glu Asn Leu Thr Ile Ile Leu Thr  
 35 40 45  
 Val Trp Ser Ser Ala Ser Leu His Arg Pro Met Tyr Tyr Phe Leu Gly  
 50 55 60  
 Ser Leu Ser Phe Leu Glu Ile Trp Tyr Val Ser Asp Ile Ile Pro Lys  
 65 70 75 80  
 Met Leu Asp Gly Phe Leu Leu Gln Arg Lys Arg Ile Ser Phe Ile Gly  
 85 90 95  
 Cys Met Thr Gln Leu Tyr Phe Phe Ser Ser Leu Val Cys Thr Glu Cys  
 100 105 110  
 Val Leu Leu Ala Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His  
 115 120 125  
 Pro Leu Arg Tyr Gln Val Ile Met Thr Thr Gly Leu Cys Val Gln Leu  
 130 135 140  
 Val Ala Phe Ser Phe Ala Ser Gly Phe Thr Ile Ser Val Ile Lys Val  
 145 150 155 160  
 Tyr Phe Ile Ser Ser Ala Thr Phe Cys Gly Ser Asn Val Leu Asn His  
 165 170 175  
 Phe Phe Cys Asp Ile Ser Pro Ile Leu Lys Leu Ala Cys Thr Asp Phe  
 180 185 190  
 Ser Thr Ala Glu Leu Val Asp Phe Ile Leu Ala Phe Ile Ile Leu Val  
 195 200 205  
 Phe Pro Leu Leu Ala Thr Ile Leu Ser Tyr Gly His Ile Thr Leu Ala  
 210 215 220  
 Val Leu Arg Ile Pro Ser Ala Thr Gly Arg Trp Arg Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ala Ser His Leu Thr Val Val Thr Phe Phe Tyr Met Ala Met Ile  
 245 250 255  
 Phe Met Tyr Val Arg Pro Gln Ala Ile Asp Thr Arg Ser Ser Asn Lys  
 260 265 270  
 Leu Ile Ser Ala Val Tyr Thr Val Leu Thr Pro Met Met Asn Pro Leu  
 275 280 285  
 Ile Tyr Cys Leu Arg Asn Thr Glu Phe Lys Asp Ala Val Arg Arg Thr  
 290 295 300  
 Leu Gly Leu Gly Asn Thr Pro Gln  
 305 310

<210> 1387  
 <211> 323  
 <212> PRT  
 <213> Mus musculus

<400> 1387  
 Met Ala Thr Gln Val His Arg Asn Gly Ser Leu Ser Ala Val Ser Leu  
 1 5 10 15

Gln Gly Phe Val Leu Val Gly Phe Gly Gly Gly Ala Lys Thr Gln Ala  
 20 25 30  
 Leu Leu Phe Ala Val Phe Leu Thr Leu Tyr Val Val Thr Val Leu Gly  
 35 40 45  
 Asn Leu Thr Met Ile Val Val Ile Thr Leu Asp Ala Arg Leu His Ser  
 50 55 60  
 Pro Met Tyr Phe Phe Leu Lys Asn Leu Ser Phe Val Asp Phe Cys Tyr  
 65 70 75 80  
 Ser Ser Val Ile Ala Pro Lys Ala Met Thr Ile Phe Leu Ser Ser Ser  
 85 90 95  
 Lys Val Ile Ser Phe Ala Gly Cys Ala Thr Gln Phe Phe Phe Phe Ser  
 100 105 110  
 Leu Leu Val Thr Thr Glu Gly Phe Leu Leu Ala Val Met Ala Tyr Asp  
 115 120 125  
 Arg Phe Met Ala Ile Cys Ser Pro Leu Arg Tyr Pro Val Thr Met Cys  
 130 135 140  
 Pro Met Ala Cys Ala Arg Leu Val Leu Gly Thr Tyr Cys Gly Gly Cys  
 145 150 155 160  
 Leu Asn Ser Ile Val Gln Thr Ser Leu Thr Phe Gln Leu Pro Phe Cys  
 165 170 175  
 Ser Ser Asn Arg Ile Asp His Phe Tyr Cys Asp Val Pro Pro Leu Leu  
 180 185 190  
 Gln Leu Ala Cys Ala Asp Thr Thr Leu Asn Glu Phe Val Met Phe Gly  
 195 200 205  
 Ile Cys Gly Leu Ile Ile Val Ser Thr Thr Leu Val Val Leu Ile Ser  
 210 215 220  
 Tyr Gly Tyr Ile Thr Met Thr Ile Leu Arg Met Arg Ser Gly Ser Gly  
 225 230 235 240  
 Arg His Lys Val Phe Ser Thr Cys Gly Ser His Met Thr Ala Val Ser  
 245 250 255  
 Leu Phe Tyr Gly Thr Val Phe Val Met Tyr Ala Gln Pro Gly Ala Leu  
 260 265 270  
 Thr Ser Met Glu Gln Gly Lys Val Val Ser Val Phe Tyr Thr Leu Val  
 275 280 285  
 Ile Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val  
 290 295 300  
 Lys Asp Ala Pro Arg Arg Leu Gly Gln Arg His Ser Leu Val Lys Glu  
 305 310 315 320  
 Asp Val Gln

<210> 1388  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1388  
 Met Arg Asn His Ser Thr Val Pro Glu Phe Ile Leu Leu Gly Leu Ser  
 1 5 10 15  
 Ala Asp Ala Gln Val Gln Ala Leu Leu Phe Val Leu Phe Leu Val Ile  
 20 25 30  
 Tyr Leu Leu Thr Leu Met Gly Asn Leu Met Leu Leu Val Val Lys  
 35 40 45  
 Val Asp Arg His Leu His Thr Pro Met Tyr Phe Phe Leu Gly Gln Leu  
 50 55 60  
 Ser Phe Leu Asp Leu Cys His Ser Ser Val Ser Val Pro Lys Leu Leu

65					70					75				80	
Glu	Asn	Leu	Leu	Ser	Val	Lys	Lys	Thr	Ile	Ser	Val	Glu	Gly	Cys	Leu
				85					90					95	
Ala	Gln	Val	Phe	Val	Phe	Ala	Thr	Gly	Gly	Thr	Glu	Ser	Cys	Leu	
			100					105					110		
Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Ser	Ser	Pro	Leu
		115					120					125			
Leu	Tyr	Gly	Gln	Val	Met	Ser	Arg	Gln	Leu	Cys	Ala	Gly	Leu	Val	Trp
	130					135					140				
Gly	Ser	Trp	Ser	Leu	Ala	Phe	Leu	Asp	Ala	Phe	Ile	Asn	Ile	Leu	Val
145					150					155					160
Ala	Leu	Asn	Leu	Asp	Phe	Cys	Glu	Ala	Gln	Asn	Ile	His	His	Phe	Ile
				165					170					175	
Cys	Glu	Leu	Pro	Ser	Leu	Tyr	Pro	Leu	Ser	Cys	Ser	Asp	Val	Ser	Ala
			180					185					190		
Ser	Phe	Thr	Thr	Leu	Leu	Cys	Ser	Ser	Phe	Ile	His	Phe	Phe	Gly	Asn
		195					200					205			
Phe	Leu	Leu	Ile	Leu	Leu	Ser	Tyr	Ile	Arg	Ile	Leu	Leu	Thr	Ile	Leu
	210					215					220				
Gly	Ile	Ser	Ser	Ala	Ser	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	Cys	Ser
225					230					235					240
Ser	His	Leu	Thr	Ala	Val	Ser	Phe	Phe	Tyr	Gly	Ser	Gly	Leu	Leu	Arg
				245					250					255	
Tyr	Leu	Met	Pro	Asn	Ser	Gly	Ser	Thr	Gln	Glu	Leu	Ile	Phe	Ser	Leu
			260					265					270		
Gln	Tyr	Ser	Val	Ile	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu
		275					280					285			
Lys	Asn	Lys	Glu	Val	Lys	Ala	Ala	Val	Arg	Arg	Thr	Val	Thr	Lys	Tyr
	290					295					300				
Leu	Gln	Cys	Phe	Lys											
305															

<210> 1389  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1389

Met	Leu	Asp	Met	Asn	Ile	Thr	Leu	Val	Ser	Glu	Phe	Ile	Leu	Val	Gly
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Phe	Pro	Thr	Ala	Pro	Trp	Leu	Gln	Ile	Leu	Leu	Phe	Phe	Ile	Phe	Leu
			20					25					30		
Val	Val	Tyr	Met	Leu	Ile	Ile	Ala	Glu	Asn	Leu	Val	Ile	Ile	Phe	Thr
		35					40					45			
Val	Trp	Ser	Thr	Gly	Ser	Leu	His	Lys	Pro	Met	Tyr	Tyr	Phe	Leu	Ser
	50					55					60				
Ser	Met	Ser	Phe	Leu	Glu	Ile	Trp	Tyr	Val	Ser	Val	Thr	Val	Pro	Lys
65					70					75					80
Met	Leu	Asp	Gly	Phe	Leu	Leu	Gln	Arg	Arg	His	Ile	Ser	Phe	Thr	Gly
				85					90					95	
Cys	Met	Thr	Gln	Leu	Tyr	Phe	Phe	Ile	Ser	Leu	Ala	Cys	Thr	Glu	Cys
			100						105				110		
Val	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	Arg	Tyr	Pro	Val	Ile	Met	Thr	Thr	Val	Tyr	Cys	Met	Gln	Leu
	130					135					140				

Met	Ala	Leu	Ser	Tyr	Phe	Ser	Gly	Phe	Met	Val	Ser	Val	Val	Lys	Val
145					150				155					160	
Tyr	Phe	Ile	Ser	His	Val	Ala	Phe	Cys	Gly	Ser	Asn	Val	Met	Asn	His
				165					170					175	
Phe	Phe	Cys	Asp	Ile	Ser	Pro	Ile	Leu	Lys	Leu	Ala	Cys	Lys	Asp	Met
			180					185					190		
Ser	Thr	Ala	Glu	Leu	Val	Asp	Phe	Ala	Leu	Ala	Ile	Val	Ile	Leu	Val
		195					200					205			
Phe	Pro	Leu	Ile	Thr	Thr	Val	Leu	Ser	Tyr	Val	Tyr	Ile	Val	Ser	Thr
	210					215					220				
Ile	Leu	His	Ile	Pro	Ser	Thr	Gln	Gly	Arg	Lys	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Thr	Val	Val	Ile	Ile	Tyr	Tyr	Thr	Ala	Met	Ile
			245					250						255	
Phe	Met	Tyr	Val	Arg	Pro	Arg	Ala	Ile	Ala	Ser	Phe	Asn	Ser	Asn	Lys
			260				265						270		
Leu	Ile	Ser	Ala	Val	Tyr	Ala	Val	Leu	Thr	Pro	Met	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Cys	Leu	Arg	Asn	Arg	Glu	Val	Lys	Asp	Ala	Ile	Lys	Lys	Thr
	290				295						300				
Leu	Gly	Gly	Gly	Gln	Cys	Phe	Leu	Leu	Cys						
305					310										

<210> 1390  
 <211> 324  
 <212> PRT  
 <213> Mus musculus

<400> 1390

Met	Leu	Phe	Met	Leu	Ile	Pro	Met	Ala	Thr	Gly	Asn	Gln	Thr	Arg	Ile
1				5					10					15	
Thr	Glu	Phe	Ile	Leu	Met	Ser	Phe	Ser	Ser	Leu	Pro	Thr	Glu	Ile	Gln
			20					25					30		
Thr	Leu	Leu	Phe	Leu	Ala	Phe	Leu	Thr	Ile	Tyr	Leu	Val	Thr	Leu	Leu
		35				40						45			
Gly	Asn	Ser	Leu	Ile	Ile	Leu	Val	Thr	Leu	Ala	Asp	Pro	Met	Leu	Gln
	50				55					60					
Ser	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Leu	Ser	Phe	Leu	Glu	Ile	Gly
65				70					75					80	
Phe	Asn	Leu	Val	Ile	Val	Pro	Lys	Met	Leu	Gly	Thr	Leu	Ile	Ala	Gln
			85					90						95	
Asp	Thr	Ser	Ile	Ser	Phe	Leu	Gly	Cys	Ala	Thr	Gln	Met	Tyr	Phe	Phe
		100					105					110			
Phe	Phe	Phe	Gly	Val	Ala	Glu	Cys	Phe	Leu	Leu	Ala	Thr	Met	Ala	Tyr
		115					120					125			
Asp	Arg	Tyr	Val	Ala	Ile	Cys	Ser	Pro	Leu	His	Tyr	Pro	Val	Ile	Met
	130				135						140				
Asn	Gln	Glu	Thr	Arg	Val	Lys	Leu	Ala	Ala	Ala	Ser	Trp	Phe	Pro	Gly
145				150					155					160	
Phe	Pro	Val	Ala	Thr	Val	Gln	Thr	Thr	Trp	Leu	Phe	Ser	Phe	Pro	Phe
			165					170						175	
Cys	Ala	Thr	Asn	Lys	Val	Asn	His	Phe	Phe	Cys	Asp	Ser	Pro	Pro	Val
		180					185					190			
Leu	Arg	Leu	Val	Cys	Ala	Asp	Thr	Ala	Gln	Phe	Glu	Val	Tyr	Ala	Ile
		195				200						205			
Val	Gly	Thr	Ile	Leu	Val	Val	Met	Ile	Pro	Cys	Leu	Leu	Ile	Leu	Cys

210		215		220
Ser Tyr Thr Leu Ile	Ala Ala Ser Ile Leu Lys	Ile Pro Ser Ala Lys		
225	230	235	240	
Gly Lys His Lys Ala	Phe Ser Thr Cys Ser Ser	His Leu Leu Val Val		
	245	250	255	
Ser Leu Phe Tyr Val	Ser Ser Ser Leu Thr Tyr	Phe Arg Pro Lys Ser		
	260	265	270	
Asn Asn Ser Pro Glu	Ser Lys Lys Leu Leu Ser	Leu Ser Tyr Thr Val		
	275	280	285	
Val Thr Pro Met Leu	Asn Pro Ile Ile Tyr Ser	Leu Arg Asn Asn Glu		
	290	295	300	
Val Lys Ser Ala Leu	Ser Arg Thr Phe His Lys	Ala Leu Ala Leu Arg		
305	310	315	320	
Asn His Ile Thr				

<210> 1391  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1391

Met Ala Ala Gly Asn Gln Thr Arg Ile Ala Glu Phe Ile Leu Met Gly	
1 5 10 15	
Phe Ser Ser Leu Pro Thr Glu Ile Gln Thr Leu Leu Phe Leu Ala Phe	
20 25 30	
Leu Thr Ile Tyr Leu Val Thr Leu Leu Gly Asn Ser Leu Ile Ile Leu	
35 40 45	
Val Thr Leu Ala Asp Pro Met Leu Gln Ser Pro Met Tyr Phe Phe Leu	
50 55 60	
Arg Asn Leu Ser Phe Met Glu Ile Gly Phe Asn Leu Val Ile Leu Pro	
65 70 75 80	
Lys Met Leu Arg Thr Leu Ile Ala Gln Asp Thr Ser Ile Ser Phe Leu	
85 90 95	
Gly Cys Ala Thr Gln Met Tyr Phe Phe Phe Phe Gly Val Ala Glu	
100 105 110	
Cys Phe Leu Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys	
115 120 125	
Ser Pro Leu His Tyr Pro Ile Met Asn Gln Gly Thr His Ala Arg	
130 135 140	
Leu Ala Ala Ala Ser Trp Phe Pro Gly Phe Pro Val Ala Thr Val Gln	
145 150 155 160	
Thr Thr Trp Leu Phe Ser Phe Pro Phe Cys Ala Asn Asn Lys Val Asn	
165 170 175	
His Phe Phe Cys Asp Ser Pro Pro Val Leu Arg Leu Val Cys Ala Asp	
180 185 190	
Thr Ala Arg Phe Glu Val Tyr Ala Ile Val Gly Thr Ile Leu Val Val	
195 200 205	
Met Ile Pro Cys Leu Leu Ile Leu Cys Ser Tyr Thr Leu Ile Ala Ala	
210 215 220	
Ser Ile Leu Lys Ile Pro Ser Ala Lys Gly Lys His Lys Ala Phe Ser	
225 230 235 240	
Thr Cys Ser Ser His Leu Val Val Val Ser Leu Phe Tyr Val Ser Leu	
245 250 255	
Ser Leu Thr Tyr Phe Arg Pro Lys Ser Lys Asn Ser Pro Glu Ser Lys	
260 265 270	

Lys Leu Leu Ser Leu Ser Tyr Thr Val Val Thr Pro Leu Leu Asn Pro  
           275                                  280                  285  
 Ile Ile Tyr Ser Leu Arg Asn Asn Glu Val Lys Asn Ala Leu Ser Arg  
           290                                  295                  300  
 Thr Phe His Lys Ala Leu Ala Leu Arg Lys Phe Ile Leu  
 305                                  310                                  315

<210> 1392  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 1392  
 Met Glu Pro Trp Asn Ser Thr Leu Gly Thr Asp Phe Asn Leu Val Gly  
   1                                  5                  10                  15  
 Ile Leu Asp Asp Ser Gly Ser Pro Glu Leu Leu Cys Ala Thr Phe Thr  
           20                                  25                  30  
 Ala Leu Tyr Met Leu Ala Leu Ile Ser Asn Gly Leu Leu Ile Leu Val  
           35                                  40                  45  
 Ile Thr Met Asp Ala Arg Leu His Val Pro Met Tyr Phe Leu Leu Gly  
           50                                  55                  60  
 Gln Leu Ser Leu Met Asp Leu Leu Phe Thr Ser Val Val Thr Pro Lys  
   65                                  70                  75                  80  
 Ala Val Ile Asp Phe Leu Leu Arg Asp Asn Thr Ile Ser Phe Glu Gly  
           85                                  90                  95  
 Cys Ser Leu Gln Met Phe Leu Ala Leu Thr Leu Gly Gly Ala Glu Asp  
           100                                  105                  110  
 Leu Leu Leu Ala Phe Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His  
           115                                  120                  125  
 Pro Leu Asn Tyr Met Ile Phe Met Arg Pro Ser Ile Cys Trp Leu Met  
           130                                  135                  140  
 Val Ala Thr Ser Trp Ile Leu Ala Ser Leu Met Ala Leu Gly Tyr Thr  
   145                                  150                  155                  160  
 Thr Tyr Thr Met Gln Tyr Ser Tyr Cys Lys Ser Arg Lys Ile Arg His  
           165                                  170                  175  
 Leu Leu Cys Glu Ile Pro Pro Leu Leu Lys Leu Ala Cys Ala Asp Thr  
           180                                  185                  190  
 Ser Lys Tyr Glu Leu Met Val Tyr Val Met Gly Val Thr Phe Leu Ile  
           195                                  200                  205  
 Pro Pro Leu Ala Ala Ile Leu Ala Ser Tyr Ser Leu Ile Leu Phe Thr  
           210                                  215                  220  
 Val Leu His Met Pro Ser Asn Glu Gly Arg Lys Lys Ala Leu Val Thr  
   225                                  230                  235                  240  
 Cys Ser Ser His Leu Thr Val Val Gly Met Phe Tyr Gly Ala Ala Thr  
           245                                  250                  255  
 Phe Met Tyr Val Leu Pro Ser Ser Phe His Ser Pro Arg Gln Asp Asn  
           260                                  265                  270  
 Ile Ile Ser Val Phe Tyr Thr Ile Val Thr Pro Ala Leu Asn Pro Leu  
           275                                  280                  285  
 Ile Tyr Ser Leu Arg Asn Lys Glu Val Thr Gly Ala Leu Ile Arg Val  
           290                                  295                  300  
 Leu Gly Arg Tyr Ile Val Pro Ala His Pro Thr Leu  
 305                                  310                                  315

<210> 1393

<211> 326  
 <212> PRT  
 <213> Mus musculus

<400> 1393

Met	Glu	Phe	Val	Leu	Ser	Ala	Asp	Lys	Lys	Glu	Ile	Lys	Ser	Lys	Asn
1				5					10					15	
Leu	Asn	Ile	Ser	Ile	Thr	Glu	Phe	Val	Leu	Leu	Gly	Phe	Ser	Asp	Val
		20						25					30		
Pro	Gln	Leu	Gln	Trp	Met	Leu	Phe	Gly	Ile	Phe	Leu	Phe	Met	Tyr	Leu
		35					40					45			
Ser	Ile	Leu	Ile	Ser	Asn	Ser	Ile	Ile	Met	Leu	Ile	Thr	Arg	Thr	Asp
	50				55						60				
Ser	Ala	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn	Phe	Ser	Phe
65					70					75					80
Val	Glu	Ile	Cys	Tyr	Val	Thr	Val	Thr	Ile	Pro	Arg	Met	Leu	Met	Asp
			85						90				95		
Leu	Cys	Thr	Gln	Lys	Gly	Thr	Ile	Ser	Leu	Leu	Ser	Cys	Ala	Val	Gln
		100						105					110		
Leu	Cys	Phe	Val	Ile	Met	Leu	Gly	Gly	Met	Glu	Phe	Leu	Leu	Leu	Thr
	115						120					125			
Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu	His	Tyr
	130					135					140				
Pro	Leu	Val	Met	Asn	Asn	Lys	Val	Cys	Val	Gln	Leu	Val	Ala	Ala	Cys
145					150					155					160
Trp	Ile	Cys	Ile	Ile	Pro	Val	Val	Thr	Gly	Gln	Thr	Tyr	Gln	Ile	Phe
			165						170					175	
Ser	Leu	Pro	Tyr	Cys	Gly	Ser	Asn	Lys	Ile	His	His	Phe	Phe	Cys	Asp
		180						185					190		
Ile	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Gly	Asp	Thr	Phe	Val	Asn	Asn
	195						200					205			
Leu	Ala	Ile	Tyr	Ile	Ala	Ser	Val	Val	Phe	Ile	Met	Val	Pro	Phe	Leu
	210					215					220				
Leu	Ile	Leu	Val	Ser	Tyr	Gly	Lys	Ile	Ile	Cys	Asn	Val	Leu	Lys	Leu
225					230					235					240
Ala	Thr	Ser	Gly	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His
			245						250					255	
Leu	Ile	Val	Val	Val	Leu	Phe	Tyr	Gly	Thr	Ala	Thr	Ile	Thr	Tyr	Ala
		260						265					270		
Gln	Pro	Lys	Ala	Tyr	Gln	Ser	Glu	Thr	Leu	Gly	Lys	Leu	Leu	Ser	Leu
	275						280					285			
Phe	Tyr	Thr	Ile	Leu	Ile	Pro	Leu	Leu	Asn	Pro	Ile	Ile	Tyr	Thr	Leu
	290					295					300				
Arg	Asn	Lys	Asp	Ile	Met	Val	Ala	Leu	Arg	Lys	Leu	Gln	Thr	Lys	Leu
305					310					315					320
Ser	Thr	Tyr	Gly	Asn	Thr										
				325											

<210> 1394  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1394

Met	Thr	Phe	Glu	Asn	Phe	Thr	Met	Leu	Thr	Glu	Phe	Val	Phe	Leu	Gly
1				5					10					15	



Leu Ser Gly Arg Gln Asp Val Gln Gln Gly Leu Phe Ala Leu Phe Phe  
 20 25 30  
 Leu Val Tyr Gly Ile Thr Val Ile Ala Asn Leu Gly Met Val Ile Leu  
 35 40 45  
 Ile Lys Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Cys Asp Ile Cys Tyr Ser Ser Thr Val Ser Pro Lys  
 65 70 75 80  
 Met Leu Ala Asp Phe Leu Ser Lys Glu Lys Arg Ile Pro Tyr Asn Leu  
 85 90 95  
 Cys Ala Val Gln Met Tyr Phe Phe Gly Ala Phe Ala Asp Val Glu Cys  
 100 105 110  
 Leu Met Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn  
 115 120 125  
 Pro Leu Leu Tyr Thr Ile Val Met Ser Lys Lys Leu Cys Ile Gln Leu  
 130 135 140  
 Val Ala Val Ala Tyr Ala Ile Gly Leu Val Asp Ser Ala Ile His Thr  
 145 150 155 160  
 Ser Cys Thr Phe Arg Leu Ser Phe Cys Asn Ser Asn Val Ile Asn His  
 165 170 175  
 Phe Phe Cys Asp Ile Pro Pro Leu Leu Ala Leu Ser Cys Ser Asp Thr  
 180 185 190  
 Ser Ile Asn Glu Ile Val Met Phe Thr Phe Ile Gly Cys Val Val Gly  
 195 200 205  
 Ile Ser Ile Val Thr Val Leu Ser Tyr Cys Tyr Ile Ile Ala Thr  
 210 215 220  
 Ile Cys Arg Met Asn Ser Ala Glu Gly Arg His Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ala Ser His Leu Met Ala Val Ala Ile Phe His Gly Thr Leu Leu  
 245 250 255  
 Phe Met Tyr Phe Arg Pro Ser Ser Ser Tyr Ser Met Asp Thr Asp Lys  
 260 265 270  
 Met Ala Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Gly Ala Leu Lys Lys Ala  
 290 295 300  
 Ile Asn Ile Asn Leu Trp Pro Gly  
 305 310

<210> 1395  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1395  
 Met Glu His Ser Glu Asn Ser Ala Met Asp Asn Ala Thr Ser Val Thr  
 1 5 10 15  
 Gln Phe Leu Leu Leu Gly Phe Ser Gly Val Pro Asn Leu Gln Thr Phe  
 20 25 30  
 Leu Phe Gly Met Phe Ser Ile Met Tyr Val Val Ile Leu Ile Gly Asn  
 35 40 45  
 Thr Ser Ile Leu Val Ile Ala Arg Ile Asp Pro Ala Leu Gln Lys Pro  
 50 55 60  
 Met Tyr Tyr Phe Leu Ala Asn Phe Ser Phe Leu Glu Ile Cys Tyr Val  
 65 70 75 80  
 Ser Val Thr Leu Pro Arg Ile Leu Tyr Asn Leu Trp Thr Gln Asp Arg



Ile	Gln	Ile	Gly	Gln	Thr	Ser	His	Ile	Phe	Ser	Leu	Ser	Phe	Cys	Gly
				165					170					175	
Ser	Asn	Gln	Ile	Asn	His	Phe	Phe	Cys	Asp	Ile	Pro	Pro	Ile	Leu	His
			180					185					190		
Leu	Ala	Cys	Gly	Asp	Ile	Phe	Ile	Asn	Glu	Met	Met	Val	Phe	Leu	Gly
		195					200					205			
Ala	Phe	Leu	Phe	Val	Leu	Phe	Pro	Phe	Met	Leu	Ile	Val	Phe	Ser	Tyr
	210					215					220				
Ser	Lys	Ile	Ile	Ser	Thr	Val	Leu	Lys	Leu	Ser	Ser	Thr	Lys	Ser	Arg
225					230					235					240
Ala	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Ala	Val	Val	Ile	Leu
				245					250					255	
Phe	Phe	Gly	Ser	Ala	Met	Ile	Thr	Tyr	Phe	Arg	Ser	Asn	Ala	Ser	His
			260					265					270		
Ser	Gly	Glu	Thr	Asp	Lys	Val	Leu	Ser	Leu	Phe	Tyr	Thr	Val	Val	Thr
		275					280					285			
Pro	Met	Phe	Asn	Pro	Met	Val	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Thr
	290					295					300				
Ile	Ala	Leu	Arg	Lys	Phe	Leu	Cys	Lys	Gln	Phe	Val	Lys	Ile		
305					310					315					

<210> 1397  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1397

Met	Glu	Gly	Asp	Asn	Thr	Ser	Ser	Thr	Asp	Phe	Thr	Phe	Met	Gly	Leu
1				5					10					15	
Phe	Asn	Thr	Glu	Glu	Thr	Ser	Gly	Leu	Val	Phe	Ala	Thr	Ile	Ser	Val
			20					25					30		
Ile	Phe	Leu	Thr	Ala	Leu	Val	Ala	Asn	Gly	Ile	Met	Ile	Phe	Leu	Ile
		35					40					45			
His	Thr	Asp	Ala	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Ser	His
	50					55					60				
Leu	Ser	Phe	Ile	Asp	Met	Met	Tyr	Ile	Ser	Thr	Ile	Val	Pro	Lys	Met
65					70					75					80
Leu	Val	Asp	Tyr	Leu	Leu	Gly	Gln	Arg	Thr	Ile	Ser	Phe	Val	Gly	Cys
				85					90					95	
Thr	Ala	Gln	His	Phe	Leu	Tyr	Leu	Thr	Leu	Val	Gly	Ala	Glu	Phe	Phe
			100					105					110		
Leu	Leu	Gly	Leu	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro
		115					120					125			
Leu	Arg	Tyr	Pro	Val	Leu	Met	Ser	Arg	Arg	Ile	Cys	Trp	Ile	Ile	Ile
	130					135					140				
Ala	Gly	Ser	Trp	Phe	Gly	Gly	Ser	Leu	Asp	Gly	Phe	Leu	Leu	Thr	Pro
145					150					155					160
Ile	Thr	Met	Ser	Phe	Pro	Phe	Cys	Arg	Ser	Arg	Glu	Ile	Asn	His	Phe
				165					170					175	
Phe	Cys	Glu	Ala	Pro	Ala	Val	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr	Ala
			180					185					190		
Leu	Tyr	Glu	Thr	Val	Met	Tyr	Val	Cys	Cys	Val	Leu	Met	Leu	Leu	Ile
		195					200					205			
Pro	Phe	Ser	Val	Val	Ile	Ser	Ser	Tyr	Ala	Arg	Ile	Leu	Ala	Thr	Val
	210					215					220				
Tyr	His	Met	Ser	Ser	Val	Glu	Gly	Arg	Lys	Lys	Ala	Phe	Ala	Thr	Cys

225					230				235				240
Ser	Ser	His	Met	Thr	Val	Val	Thr	Leu	Phe	Tyr	Gly	Ala	Ile
				245					250				255
Thr	Tyr	Met	Val	Pro	His	Ser	Tyr	His	Ser	Pro	Ser	Gln	Lys
			260					265				270	
Phe	Ser	Val	Phe	Tyr	Thr	Ile	Leu	Thr	Pro	Met	Leu	Asn	Ile
		275					280					285	
Tyr	Ser	Met	Arg	Asn	Lys	Asp	Val	Ser	Gly	Gly	Leu	Arg	Ala
	290					295					300		
Gly	Lys	Ile	Arg	Ser	Ser	Gln	Arg	Val	Ser	Lys	Asp	Tyr	
305					310					315			

<210> 1398  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1398

Met	Ala	Ile	Asn	Asn	Ser	Thr	Thr	Val	Val	Glu	Phe	Val	Leu	Gln	Gly
1				5					10					15	
Leu	Ser	Glu	Asp	Pro	Gly	Leu	Gln	Ala	Leu	Phe	Leu	Ala	Phe	Phe	Leu
			20					25					30		
Leu	Leu	Tyr	Ile	Leu	Ala	Leu	Ala	Gly	Asn	Thr	Leu	Ile	Ile	Ile	Ala
		35					40					45			
Ile	Ser	Leu	Asn	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala
	50					55					60				
Asn	Leu	Ala	Leu	Leu	Asp	Ile	Ile	Cys	Thr	Ser	Thr	Val	Val	Pro	Lys
65					70					75					80
Leu	Leu	Glu	Gly	Leu	Val	Gly	Lys	Ser	Ser	His	Ile	Ser	Tyr	Lys	Gly
			85					90						95	
Cys	Met	Thr	Gln	Val	Phe	Phe	Leu	Ile	Trp	Val	Leu	Gly	Ala	Glu	Leu
			100					105					110		
Leu	Leu	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg
		115					120					125			
Pro	Leu	His	Tyr	Asn	Thr	Leu	Met	Ser	Trp	Pro	Ile	Cys	Val	Leu	Leu
	130					135					140				
Ala	Gly	Phe	Val	Trp	Val	Ile	Gly	Ile	Ala	Asn	Thr	Ser	Val	His	Ile
145					150					155					160
Gly	Leu	Leu	Val	Arg	Leu	Asn	Phe	Cys	Gly	Ser	Asn	Gln	Ile	Arg	His
			165					170						175	
Phe	Leu	Cys	Glu	Val	Pro	Thr	Leu	Leu	Leu	Ser	Cys	Ser	Pro	Thr	
			180				185					190			
Thr	Leu	Asn	Asn	Ile	Met	Leu	Val	Ile	Ala	Asp	Val	Tyr	Phe	Gly	Val
		195					200					205			
Leu	Asn	Phe	Leu	Leu	Thr	Met	Ile	Ser	Tyr	Ser	Phe	Ile	Ile	Ser	Ser
	210					215					220				
Ile	Leu	Arg	Ile	Arg	Ser	Ala	Glu	Gly	Lys	Lys	Arg	Ala	Phe	Ser	Thr
225					230				235						240
Cys	Ser	Ala	His	Leu	Val	Val	Val	Thr	Leu	Tyr	Tyr	Ser	Thr	Ile	Ile
			245						250					255	
Tyr	Thr	Tyr	Leu	Gln	Pro	Gly	Ser	Gly	Ser	Ser	Phe	Gln	Asn	Ser	Lys
			260					265					270		
Val	Val	Thr	Leu	Leu	Tyr	Thr	Ala	Val	Ser	Pro	Thr	Leu	Asn	Pro	Ile
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Val	Ala	Leu	Lys	Arg	Leu
	290					295					300				

Phe Pro Cys Phe His  
305

<210> 1399  
<211> 311  
<212> PRT  
<213> Mus musculus

<400> 1399  
Met Ile Lys Asn Asn Gln Thr Leu Phe Asn Gln Phe Leu Leu Leu Gly  
1 5 10 15  
Leu Pro Ile Pro Ala Glu His Gln Gln Leu Phe Phe Ala Leu Phe Leu  
20 25 30  
Ser Met Tyr Leu Thr Thr Ile Leu Gly Asn Leu Ile Ile Ile Ile Leu  
35 40 45  
Ile Arg Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser  
50 55 60  
Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys  
65 70 75 80  
Leu Leu Gln Asn Met Gln Ser Gln Asp Thr Ser Ile Thr Tyr Ala Gly  
85 90 95  
Cys Leu Thr Gln Met Tyr Phe Phe Val Leu Phe Gly Gly Leu Glu Ile  
100 105 110  
Phe Leu Leu Val Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Leu  
115 120 125  
Pro Leu His Tyr Thr Ser Ile Met Ser Leu Lys Leu Cys Val Cys Leu  
130 135 140  
Val Leu Leu Ser Trp Val Ile Ser Ile Leu Asn Ser Met Leu His Thr  
145 150 155 160  
Leu Leu Leu Ala Arg Leu Ser Phe Cys Glu Asp Asn Met Ile Arg His  
165 170 175  
Phe Phe Cys Asp Met Ser Ala Leu Leu Lys Leu Ala Cys Ser Asp Ile  
180 185 190  
Tyr Ile Asn Glu Leu Met Ile Phe Ile Leu Gly Gly Pro Leu Met Val  
195 200 205  
Ile Pro Phe Leu Leu Ile Val Met Ser Tyr Val Gln Ile Ile Phe Ser  
210 215 220  
Ile Leu Lys Ala Ser Ser Thr Arg Ala Ile Tyr Lys Val Phe Ser Thr  
225 230 235 240  
Cys Gly Ser His Leu Thr Val Val Ser Leu Phe Tyr Gly Thr Ile Ile  
245 250 255  
Gly Leu Tyr Leu Cys Pro Ser Ala Asn Asn Phe Thr Ala Lys Glu Ala  
260 265 270  
Ser Ile Ala Ile Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe  
275 280 285  
Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Glu Ala Leu Ile Asn Val  
290 295 300  
Leu Ile Lys Lys Ile Pro Leu  
305 310

<210> 1400  
<211> 314  
<212> PRT  
<213> Mus musculus

<400> 1400

Met	Thr	Arg	Arg	Asn	Gln	Thr	Val	Ile	Ser	Gln	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Leu	Pro	Ile	Pro	Pro	Glu	His	Gln	Gln	Leu	Tyr	Tyr	Ala	Leu	Leu	Leu
			20					25					30		
Ser	Met	Tyr	Leu	Thr	Thr	Val	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Ile	Leu
		35					40					45			
Ile	Leu	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Ala	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys
65					70					75					80
Leu	Leu	Gln	Asn	Met	Gln	Ser	Lys	Val	Pro	Ser	Ile	Pro	Tyr	Ala	Gly
			85						90					95	
Cys	Leu	Ala	Gln	Ile	Tyr	Phe	Phe	Leu	Tyr	Phe	Gly	Asp	Leu	Gly	Asn
			100					105					110		
Phe	Leu	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe
			115				120					125			
Pro	Leu	His	Tyr	Met	Ser	Ile	Met	Ser	Pro	Arg	Leu	Cys	Val	Ser	Leu
	130					135					140				
Val	Leu	Leu	Ser	Trp	Val	Leu	Thr	Thr	Phe	His	Ala	Met	Leu	His	Thr
145					150					155					160
Leu	Leu	Met	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Asp	Asn	Val	Ile	Pro	His
			165						170					175	
Tyr	Phe	Cys	Asp	Met	Ser	Thr	Leu	Leu	Lys	Val	Ala	Cys	Ser	Asp	Thr
			180					185					190		
His	Asp	Asn	Glu	Leu	Ala	Ile	Phe	Ile	Leu	Gly	Gly	Pro	Ile	Val	Val
		195					200					205			
Leu	Pro	Phe	Leu	Leu	Ile	Ile	Val	Ser	Tyr	Ala	Arg	Ile	Val	Ser	Ser
	210					215					220				
Ile	Phe	Lys	Phe	Pro	Ser	Phe	Gln	Gly	Ile	Arg	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Val	Ile
			245						250					255	
Gly	Leu	Tyr	Leu	Cys	Pro	Ser	Ala	Asn	Asn	Thr	Tyr	Val	Lys	Glu	Thr
			260					265					270		
Ile	Met	Ser	Leu	Met	Tyr	Thr	Met	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe
	275						280					285			
Ile	Tyr	Ser	Leu	Ser	Asn	Arg	Asp	Ile	Lys	Asp	Ala	Leu	Glu	Lys	Ile
	290					295					300				
Met	Cys	Lys	Arg	Gln	Ile	Pro	Phe	Phe	Leu						
305					310										

<210> 1401

<211> 312

<212> PRT

<213> Mus musculus

<400> 1401

Met	Ile	Lys	Asn	Asn	Gln	Thr	Val	Ile	Ser	Gln	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Leu	Pro	Ile	Pro	Pro	Glu	His	Gln	His	Leu	Phe	Tyr	Ala	Leu	Phe	Leu
			20					25					30		
Ala	Met	Tyr	Leu	Thr	Thr	Val	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Ile	Leu
		35					40					45			
Ile	Ile	Leu	Asp	Phe	His	Leu	His	Thr	Pro	Ile	Tyr	Leu	Phe	Leu	Ser
	50					55					60				

Asn	Leu	Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys
65					70					75					80
Leu	Leu	Gln	Asn	Met	Gln	Ser	Gln	Asp	Thr	Thr	Ile	Ser	Tyr	Val	Gly
				85					90					95	
Cys	Leu	Thr	Gln	Met	Tyr	Phe	Pro	Asn	Val	Phe	Ala	Asn	Leu	Glu	Asn
			100					105					110		
Phe	Leu	Leu	Met	Phe	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Tyr
		115					120					125			
Pro	Leu	Arg	Tyr	Thr	Ser	Ile	Met	Ser	Pro	Ile	Leu	Cys	Val	Cys	Met
	130					135					140				
Val	Phe	Met	Ser	Trp	Leu	Leu	Thr	Met	Leu	Asn	Ser	Thr	Leu	His	Thr
145					150					155					160
Val	Leu	Ile	Val	Lys	Leu	Ser	Phe	Cys	Glu	Asp	Asn	Val	Ile	Pro	His
				165					170					175	
Phe	Phe	Cys	Asp	Ile	Ser	Ala	Val	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Ile
			180					185					190		
Tyr	Ile	Asn	Glu	Leu	Thr	Ile	Phe	Ile	Thr	Gly	Ala	Phe	Ile	Ile	Val
		195					200					205			
Ile	Pro	Phe	Leu	Leu	Ile	Val	Val	Ser	Tyr	Val	Gln	Ile	Val	Cys	Ser
	210					215					220				
Ile	Leu	Lys	Phe	Ser	Ser	Thr	Arg	Gly	Ile	Ala	Lys	Ile	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Ile
				245					250					255	
Gly	Leu	Tyr	Leu	Cys	Pro	Ser	Thr	Asn	Asn	Ser	Thr	Val	Lys	Asp	Thr
			260					265					270		
Ala	Met	Ala	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Glu	Ala	Leu	Ile	Arg	Val
	290					295					300				
Leu	Cys	Lys	Lys	Glu	Ile	Ser	Leu								
305						310									

<210> 1402  
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 <212> PRT  
 <213> Mus musculus

<400> 1402

Met	Ile	Met	Asn	Asn	Lys	Thr	Val	Ile	Thr	Gln	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Pro	Ile	Leu	Pro	Glu	Tyr	Gln	His	Leu	Phe	Tyr	Ala	Leu	Phe	Leu
			20					25					30		
Ser	Met	Tyr	Leu	Thr	Thr	Ile	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Ile	Leu
		35					40					45			
Ile	Gln	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Ile	Tyr	Leu	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys
65					70					75					80
Leu	Leu	Leu	Asn	Met	Gln	Ser	Gln	Asp	Thr	Ser	Ile	Pro	Tyr	Ala	Gly
			85						90					95	
Cys	Leu	Thr	Gln	Met	Tyr	Phe	Ser	Asn	Leu	Phe	Gly	Ser	Leu	Glu	Ile
			100					105					110		
Phe	Leu	Leu	Val	Ile	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Leu
		115					120					125			
Pro	Leu	His	Tyr	Thr	Ser	Ile	Met	Ser	Pro	Lys	Leu	Cys	Val	Cys	Leu

130	Val	Leu	Leu	Ser	Trp	135	Val	Ile	Ser	Met	Leu	Tyr	140	Ser	Met	Leu	His	Thr
145	Leu	Leu	Leu	Ala	Arg	150	Leu	Ser	Phe	Cys	Glu	Asp	155	Asn	Val	Ile	Pro	His
					165							170					175	
Phe	Phe	Cys	Asp	Ile	Ser	Ala	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Ile			
			180						185					190				
His	Ile	Asn	Glu	Leu	Met	Ile	Phe	Phe	Leu	Gly	Gly	Pro	Leu	Thr	Val			
		195						200				205						
Ile	Pro	Phe	Leu	Leu	Ile	Val	Val	Ser	Tyr	Ile	Gln	Ile	Val	Phe	Ser			
	210					215					220							
Ile	Leu	Lys	Ile	Ser	Ser	Thr	Arg	Ala	Ile	His	Lys	Val	Phe	Ser	Thr			
225					230					235					240			
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Ile			
				245					250					255				
Gly	Leu	Tyr	Leu	Cys	Pro	Ser	Ala	Asn	Asn	Phe	Ser	Val	Lys	Lys	Ala			
			260					265					270					
Ser	Ile	Thr	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe			
		275					280					285						
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Ile	Lys	Glu	Ala	Leu	Val	Arg	Val			
	290				295					300								
Leu	Ile	Lys	Lys	Ile	Ser	Leu												
305					310													

<210> 1403  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1403

Met	Asp	Thr	Tyr	Asn	Leu	Thr	Val	Leu	Lys	Tyr	Phe	Ile	Leu	Thr	Gly
1				5					10					15	
Ile	Thr	Asp	Leu	Pro	Glu	Leu	Gln	Ala	Pro	Leu	Phe	Gly	Leu	Phe	Leu
			20					25					30		
Ile	Ile	Tyr	Met	Ile	Ser	Val	Val	Gly	Asn	Leu	Gly	Leu	Ile	Ile	Leu
		35					40					45			
Thr	Lys	Ile	Asp	Ser	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg
	50				55					60					
Gln	Leu	Ser	Leu	Thr	Asp	Leu	Gly	Tyr	Ser	Thr	Ala	Val	Gly	Pro	Lys
65				70					75					80	
Met	Leu	Ile	Asn	Phe	Val	Ala	Asp	Gln	Pro	Thr	Ile	Ser	Tyr	Asn	Trp
			85					90					95		
Cys	Ser	Val	Gln	Leu	Thr	Phe	Phe	Ser	Ile	Phe	Ile	Thr	Thr	Glu	Val
			100					105					110		
Phe	Ile	Leu	Ser	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	Leu	Tyr	Thr	Ile	Ile	Met	Ser	Gln	Arg	Leu	Cys	His	Val	Leu
	130				135					140					
Val	Ala	Ile	Pro	Tyr	Leu	Tyr	Ser	Val	Phe	Ile	Ser	Leu	Trp	Thr	Ile
145				150					155					160	
Ile	Lys	Ile	Phe	Thr	Ser	Ser	Phe	Cys	Gly	His	Asn	Ile	Ile	Arg	Tyr
			165					170					175		
Phe	Tyr	Cys	Asp	Ser	Leu	Pro	Leu	Ile	Leu	Met	Leu	Cys	Ser	Asp	Thr
		180					185					190			
His	Glu	Ile	Lys	Leu	Ile	Ile	Leu	Ile	Phe	Ala	Thr	Phe	Asn	Leu	Ile
	195					200						205			



Ser	Ser	Leu	Leu	Val	Val	Ser	Ile	Ser	Tyr	Ile	Leu	Ile	Leu	Val	Ser
210						215					220				
Ile	Leu	Arg	Met	Asn	Ser	Ser	Glu	Gly	Arg	His	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Thr	Val	Ile	Val	Ile	Phe	Tyr	Gly	Thr	Leu	Phe
				245						250				255	
Phe	Met	Tyr	Ala	Gln	Pro	Lys	Ser	Ile	His	Ser	Phe	Glu	Thr	Gly	Gln
			260						265				270		
Val	Ala	Ser	Leu	Phe	Tyr	Thr	Leu	Val	Ile	Pro	Met	Leu	Asn	Pro	Met
		275						280				285			
Ile	Tyr	Ser	Leu	Arg	Asn	Gln	Glu	Val	Lys	Gln	Ala	Leu	Asn	Arg	Lys
	290					295					300				
Trp	Lys	Met	Cys	Val	Asn	Ile	Leu	Phe	Lys	Leu					
305					310					315					

<210> 1404  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1404

Met	Glu	Lys	Tyr	Asn	Leu	Thr	Ile	Val	Thr	Glu	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Ile	Thr	Asn	His	His	Glu	Phe	Gln	Val	Pro	Leu	Phe	Gly	Leu	Tyr	Leu
			20					25					30		
Ile	Ile	Tyr	Leu	Thr	Ser	Leu	Val	Asp	Asn	Leu	Gly	Met	Ile	Ile	Leu
		35					40					45			
Thr	Ile	Val	Asp	Ser	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg
	50					55					60				
His	Leu	Ala	Thr	Thr	Asp	Leu	Gly	Tyr	Ser	Thr	Ala	Val	Gly	Pro	Lys
65					70					75					80
Met	Leu	Arg	Asn	Phe	Leu	Val	Asp	Gln	Asn	Ile	Ile	Ser	Phe	Tyr	Ala
				85					90					95	
Cys	Ala	Ile	Gln	Ser	Ser	Phe	Phe	Gly	Met	Phe	Ile	Val	Cys	Glu	Phe
			100					105					110		
Phe	Ile	Leu	Ser	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
	115						120					125			
Pro	Leu	Leu	Tyr	Thr	Val	Ile	Met	Ser	Gln	Lys	Ala	Cys	Trp	Ile	Leu
	130					135					140				
Val	Thr	Ile	Pro	Tyr	Leu	Tyr	Ser	Ile	Ile	Val	Ser	Leu	Leu	Val	Asn
145					150					155					160
Ile	Lys	Ile	Phe	Thr	Leu	Ser	Phe	Cys	Gly	Tyr	Asn	Val	Ile	Ser	His
				165					170					175	
Phe	Tyr	Cys	Asp	Ala	Leu	Pro	Leu	Leu	Thr	Leu	Ala	Cys	Ser	Asn	Thr
			180					185					190		
His	Glu	Ile	Glu	Ala	Ile	Ile	Leu	Ile	Phe	Ser	Ala	Phe	Asn	Leu	Leu
	195						200					205			
Ser	Ser	Leu	Leu	Ile	Val	Ile	Gly	Ser	Tyr	Leu	Leu	Ile	Leu	Met	Ala
	210					215					220				
Ile	Leu	Arg	Ile	Asn	Ser	Thr	Glu	Gly	Lys	Trp	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Thr	Val	Val	Ile	Val	Phe	Tyr	Gly	Thr	Leu	Ile
				245					250					255	
Cys	Met	Tyr	Leu	Gln	Pro	Thr	Ser	Thr	His	Ser	Ile	Asp	Thr	Gly	Lys
			260					265					270		
Gly	Thr	Ser	Ile	Phe	Tyr	Thr	Gln	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu

	275		280		285
Ile	Tyr Ser Leu Arg Asn Lys Asp Val Thr Asp Val Leu Lys Lys Thr				
	290		295		300
Lys	Glu Lys Val Tyr Asn Leu Val Ser				
305		310			

<210> 1405  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1405

Met	Glu	Lys	Arg	Asn	Leu	Thr	Val	Val	Thr	Glu	Phe	Ile	Leu	Met	Gly
1				5					10					15	
Ile	Thr	Asp	Arg	Pro	Glu	Leu	Gln	Ala	Pro	Leu	Phe	Gly	Leu	Phe	Leu
			20					25					30		
Ile	Ile	Tyr	Leu	Ile	Ser	Leu	Leu	Gly	Asn	Met	Gly	Met	Ile	Ile	Leu
		35				40					45				
Thr	Met	Val	Asp	Ser	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg
	50					55					60				
His	Leu	Ala	Ile	Thr	Asp	Leu	Gly	Tyr	Ser	Thr	Ala	Val	Gly	Pro	Lys
65					70					75				80	
Met	Leu	Glu	Asn	Phe	Val	Val	Asn	Gln	Asn	Thr	Ile	Ser	Asn	His	Leu
			85					90					95		
Cys	Ala	Ile	Gln	Leu	Thr	Phe	Phe	Leu	Val	Phe	Ile	Ile	Cys	Glu	Leu
			100					105					110		
Phe	Ile	Leu	Ser	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
			115				120					125			
Pro	Leu	Leu	Tyr	Thr	Val	Ile	Met	Ser	His	Arg	Val	Cys	Trp	Val	Leu
	130					135					140				
Val	Ala	Val	Pro	Tyr	Phe	Tyr	Ser	Val	Ile	Ile	Ser	Leu	Leu	Ile	Thr
145					150					155				160	
Ile	Lys	Ile	Phe	Ala	Leu	Pro	Phe	Cys	Asp	Tyr	Arg	Ile	Val	Ser	His
			165					170					175		
Phe	Cys	Asp	Ser	Leu	Pro	Leu	Ile	Ser	Leu	Leu	Cys	Ser	Asn	Thr	His
		180						185					190		
Asp	Ile	Glu	Ile	Ile	Ile	Leu	Ile	Ser	Ala	Gly	Phe	Asn	Leu	Val	Ser
	195					200						205			
Ser	Leu	Val	Val	Leu	Leu	Phe	Ser	Tyr	Leu	Leu	Ile	Leu	Ile	Ala	Ile
	210					215					220				
Phe	Arg	Met	Asn	Ser	Ala	Glu	Gly	Arg	Gln	Lys	Ala	Leu	Ser	Thr	Cys
225				230						235				240	
Gly	Ser	His	Leu	Thr	Val	Val	Ile	Val	Phe	Tyr	Gly	Thr	Leu	Ile	Phe
			245						250				255		
Met	Tyr	Val	Gln	Pro	Lys	Ser	Ser	His	Ser	Phe	Asp	Thr	Asp	Lys	Val
		260						265				270			
Ala	Ser	Ile	Phe	Tyr	Thr	Leu	Ile	Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile
	275						280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Tyr	Ala	Leu	Glu	Arg	Leu	Trp
	290				295						300				
Lys	Met	Leu	Gly	Asn	Ile	Phe	Ser								
305					310										

<210> 1406  
 <211> 313

<212> PRT

<213> Mus musculus

<400> 1406

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Met Glu Asn Gln Asn Leu Ser Val Leu Asn Glu Phe Ile Leu Val Gly
 1          5          10          15
Ile Thr Asp Arg Pro Glu Leu Gln Ala Pro Phe Phe Val Leu Phe Phe
 20          25          30
Leu Ile Tyr Val Ala Ser Val Val Gly Asn Leu Gly Met Ile Val Leu
 35          40          45
Thr Lys Leu Asp Glu Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Arg
 50          55          60
His Leu Ala Phe Ile Asp Phe Gly Tyr Ser Thr Ala Val Gly Pro Lys
 65          70          75          80
Thr Leu Val Ser Phe Val Thr Asn Lys Asn Thr Ile Pro Tyr Asn Trp
 85          90          95
Cys Ala Phe Gln Leu Ser Leu Phe Ile Phe Phe Ile Ile Ser Glu Leu
100          105          110
Phe Val Leu Ser Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
115          120          125
Pro Leu Leu Tyr Thr Val Ile Met Ser Gln Lys Val Cys Trp Val Leu
130          135          140
Val Thr Ile Pro Tyr Leu Phe Ser Ala Phe Leu Ser Leu Ile Thr Thr
145          150          155          160
Ile Lys Ile Phe Ile Ser Ser Phe Cys Gly Tyr Asn Val Ile Ser His
165          170          175
Phe Tyr Cys Asp Ser Leu Pro Leu Leu Thr Leu Ile Cys Ser Gly Thr
180          185          190
Arg Asp Val Glu Leu Ile Ile Leu Ile Phe Ser Ala Phe Asn Leu Ile
195          200          205
Ser Ser Leu Ser Val Val Leu Val Ser Tyr Thr Phe Ile Leu Val Ala
210          215          220
Ile Leu Arg Met Asn Ser Ala Glu Gly Arg His Lys Ala Phe Ser Thr
225          230          235          240
Cys Gly Ser His Leu Thr Val Val Val Ile Leu Tyr Gly Thr Leu Ser
245          250          255
Phe Met Tyr Ile Gln Pro Lys Ser Ser His Ser Phe Glu Asn Asp Lys
260          265          270
Met Ala Ser Val Phe Tyr Thr Leu Val Ile Pro Val Leu Asn Pro Ile
275          280          285
Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Gly Ala Leu Gln Lys Leu
290          295          300
Trp Lys Asn Val Cys Lys Val Cys Ile
305          310
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<210> 1407

<211> 315

<212> PRT

<213> Mus musculus

<400> 1407

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Met Ala Pro Arg Asn Leu Ser His Val Thr Glu Phe Ile Leu Val Gly
 1          5          10          15
Val Ser Asp Leu Pro Glu Leu Gln Val Pro Leu Phe Phe Val Phe Leu
 20          25          30
Val Ile Tyr Leu Leu Thr Ala Ala Gly Asn Leu Gly Ile Ile Thr Leu
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Ser Ile Leu Ser Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn  
 115 120 125  
 Pro Leu Leu Tyr Ser Ala Ile Met Ser Gln Arg Arg Cys Gln Val Leu  
 130 135 140  
 Ile Gly Ile Pro Tyr Leu Tyr Ser Ile Phe Gln Ala Leu Leu Phe Pro  
 145 150 155 160  
 Ile Arg Tyr Phe Thr Leu Ser Phe Cys Gly Ala Asn Val Ile Ser His  
 165 170 175  
 Phe Tyr Cys Asp Val Val Pro Leu Leu Pro Leu Ile Cys Ser His Val  
 180 185 190  
 Glu Glu Thr Glu Leu Leu Thr Ile Leu Phe Ser Ala Phe Asn Leu Ile  
 195 200 205  
 Ser Ser Leu Leu Val Val Leu Leu Ser Tyr Met Leu Ile Leu Leu Thr  
 210 215 220  
 Ile Phe Arg Met Arg Ser Ala Glu Gly Arg Lys Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Gly Ser His Leu Thr Val Val Val Val Phe Tyr Gly Ser Leu Leu  
 245 250 255  
 Phe Met Tyr Val Gln Pro Lys Ser Ala His Ser Phe Glu Tyr Asp Lys  
 260 265 270  
 Ala Ala Ser Val Phe Tyr Thr Leu Val Ile Pro Met Leu Asn Pro Leu  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Asn Ala Phe His Arg Val  
 290 295 300  
 Phe Lys Asn Leu  
 305

<210> 1409  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1409  
 Met Asp Lys Glu Asn His Ser Val Val Thr Glu Phe Val Phe Met Gly  
 1 5 10 15  
 Ile Thr Gln Asp Pro Gln Leu Gln Ile Ile Phe Phe Val Val Phe Leu  
 20 25 30  
 Leu Val Tyr Leu Val Asn Val Ile Gly Asn Val Gly Met Ile Ile Leu  
 35 40 45  
 Ile Ile Thr Asp Ser Gln Leu His Thr Pro Met Tyr Phe Phe Leu Cys  
 50 55 60  
 Asn Leu Ser Phe Val Asp Leu Gly Tyr Ser Ser Ala Ile Ala Pro Arg  
 65 70 75 80  
 Met Leu Ala Asp Phe Leu Thr Lys His Lys Val Ile Ser Phe Ser Ser  
 85 90 95  
 Cys Ala Thr Gln Phe Ala Phe Phe Val Gly Phe Val Asp Ala Glu Cys  
 100 105 110  
 Tyr Val Leu Ala Ala Met Ala Tyr Asp Arg Phe Val Ala Ile Cys Arg  
 115 120 125  
 Pro Leu His Tyr Ser Thr Leu Met Ser Lys Lys Val Cys Leu Val Leu  
 130 135 140  
 Met Leu Gly Ser Tyr Phe Ala Gly Leu Val Ser Leu Val Ala His Thr  
 145 150 155 160  
 Ser Leu Thr Phe Ser Leu Ser Tyr Cys Gly Ser Asn Ile Ile Asn His  
 165 170 175  
 Phe Phe Cys Glu Ile Pro Pro Leu Leu Ala Leu Ser Cys Ser Asp Thr



Val	Phe	Tyr	Gly	Thr	Leu	Leu	Phe	Met	Tyr	Leu	Gln	Pro	Lys	Ser	Thr
			260					265					270		
His	Ser	Phe	Glu	Thr	Asp	Lys	Ile	Ala	Ser	Val	Phe	Tyr	Thr	Leu	Val
		275					280					285			
Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Phe	Arg	Asn	Lys	Glu	Val
	290					295					300				
Lys	Asn	Ala	Val	Leu	Arg	Val	Phe	Arg	Tyr	Gln	Cys	Lys	Leu	Cys	Thr
305					310					315					320

<210> 1411  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 1411

Met	Ala	Glu	Val	Asn	Ile	Ser	Tyr	Val	Ser	Glu	Phe	Ile	Leu	Lys	Gly
1				5					10					15	
Ile	Thr	Asp	Arg	Pro	Glu	Leu	Gln	Ala	Pro	Cys	Phe	Val	Met	Phe	Leu
		20						25					30		
Thr	Ile	Tyr	Leu	Val	Thr	Val	Leu	Gly	Asn	Leu	Gly	Leu	Ile	Val	Ile
	35						40					45			
Ile	Arg	Val	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
His	Leu	Ala	Phe	Val	Asp	Leu	Cys	Tyr	Ser	Ser	Ala	Ile	Thr	Pro	Lys
65				70					75						80
Met	Met	Val	Asn	Phe	Val	Val	Glu	Arg	Asn	Thr	Ile	Pro	Phe	His	Ala
			85						90					95	
Cys	Ala	Thr	Gln	Leu	Gly	Cys	Phe	Leu	Thr	Phe	Met	Ile	Thr	Glu	Cys
		100						105					110		
Phe	Leu	Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Ser
	115						120					125			
Pro	Leu	His	Tyr	Ser	Thr	Leu	Met	Ser	Lys	Arg	Val	Cys	Ile	Gln	Leu
	130					135					140				
Val	Ala	Val	Pro	Tyr	Val	Tyr	Ser	Phe	Leu	Val	Ala	Leu	Phe	His	Thr
145				150					155						160
Ile	Ile	Thr	Phe	Arg	Leu	Thr	Tyr	Cys	Gly	Pro	Asn	Val	Ile	Asn	His
			165						170					175	
Phe	Tyr	Cys	Asp	Asp	Leu	Pro	Leu	Leu	Ala	Leu	Ser	Cys	Ser	Asp	Thr
	180						185					190			
His	Met	Lys	Glu	Ile	Leu	Ile	Phe	Ala	Phe	Ala	Gly	Phe	Asp	Met	Ile
	195					200					205				
Cys	Ser	Ser	Ser	Ile	Val	Leu	Thr	Ser	Tyr	Leu	Phe	Ile	Ile	Ala	Ala
	210					215					220				
Ile	Leu	Arg	Ile	Arg	Ser	Thr	Gln	Gly	Arg	Arg	Lys	Ala	Ile	Ser	Thr
225				230					235						240
Cys	Gly	Ser	His	Met	Val	Ala	Val	Thr	Ile	Phe	Tyr	Gly	Thr	Leu	Ile
			245						250					255	
Phe	Met	Tyr	Leu	Gln	Pro	Lys	Ser	Asn	His	Ser	Leu	Asp	Thr	Asp	Lys
		260					265					270			
Met	Ala	Ser	Val	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
	275						280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Asp	Ala	Ser	Lys	Lys	Ala
	290					295				300					
Leu	Asp	Lys	Gly	Tyr	Glu	Thr	Leu	Lys	Ile	Leu	Arg	Leu	Ser	Lys	
305					310					315					

<210> 1412  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 1412

Met	Gly	Arg	His	Asn	Leu	Thr	Val	Val	Thr	Glu	Phe	Val	Leu	Met	Gly
1				5					10					15	
Ile	Thr	Asp	Arg	Pro	Glu	Leu	Gln	Ala	Pro	Leu	Phe	Gly	Leu	Phe	Leu
		20						25					30		
Ile	Ile	Tyr	Leu	Ile	Ser	Leu	Ile	Gly	Asn	Leu	Gly	Met	Ile	Ile	Leu
		35					40					45			
Thr	Thr	Val	Asp	Ser	Lys	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Lys
	50					55					60				
His	Leu	Ala	Ile	Thr	Asp	Leu	Gly	Tyr	Ser	Thr	Ser	Val	Gly	Pro	Lys
65					70					75				80	
Met	Leu	Val	Asn	Phe	Val	Val	Asp	Gln	Asn	Thr	Ile	Ser	Phe	Lys	Leu
			85						90					95	
Cys	Ala	Thr	Gln	Leu	Ser	Phe	Phe	Leu	Val	Phe	Ile	Val	Ser	Glu	Leu
		100						105					110		
Phe	Ile	Leu	Ser	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
	115						120					125			
Pro	Leu	Leu	Tyr	Thr	Val	Ile	Met	Ser	Gln	Lys	Leu	Cys	Trp	Val	Leu
	130					135					140				
Val	Ala	Ile	Pro	Tyr	Leu	Tyr	Cys	Thr	Phe	Val	Ser	Leu	Leu	Val	Thr
145					150					155					160
Val	Lys	Ile	Phe	Thr	Leu	Ser	Phe	Cys	Gly	Tyr	Asn	Val	Ile	Ser	His
			165						170					175	
Phe	Tyr	Cys	Asp	Ser	Leu	Pro	Leu	Leu	Pro	Leu	Leu	Cys	Ser	Asp	Thr
		180					185					190			
His	Asp	Ile	Glu	Leu	Ile	Ile	Leu	Ile	Leu	Ala	Ala	Phe	Asp	Leu	Ile
	195						200					205			
Ser	Ser	Leu	Leu	Val	Val	Leu	Val	Ser	Tyr	Leu	Leu	Ile	Leu	Ile	Ala
	210					215					220				
Ile	Val	Arg	Met	Asn	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr
225				230					235						240
Cys	Gly	Ser	His	Leu	Thr	Val	Val	Ile	Val	Phe	Tyr	Gly	Thr	Leu	Ile
			245						250					255	
Phe	Met	Tyr	Val	Gln	Pro	Asn	Ser	Ser	His	Ser	Phe	Glu	Thr	Asp	Lys
		260					265					270			
Val	Ala	Ser	Ile	Phe	Tyr	Thr	Leu	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
	275						280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Tyr	Ala	Leu	Lys	Arg	Thr
	290					295					300				
Leu	Asn	Asn	Leu	Cys	Lys	Leu	Phe	Ser	Leu	Ala	Phe	His	Lys	Ile	
305					310					315					

<210> 1413  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1413

Met	Ala	Gln	Ile	Asn	Cys	Thr	Gln	Val	Thr	Glu	Phe	Ile	Leu	Val	Gly
1				5					10					15	



Leu Thr Asp Arg Glu Glu Leu Lys Met Pro Leu Phe Val Val Phe Leu  
                   20                  25                  30  
 Ser Ile Tyr Leu Phe Thr Thr Leu Gly Asn Leu Gly Leu Ile Leu Val  
                   35                  40                  45  
 Ile Arg Thr Asp Ala Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
                   50                  55                  60  
 Asn Leu Ala Phe Val Asp Phe Cys Tyr Ser Ser Val Ile Thr Pro Lys  
                   65                  70                  75                  80  
 Met Leu Gly Asn Phe Leu Tyr Lys Gln Asn Met Ile Ser Phe Asn Ala  
                   85                  90                  95  
 Cys Ala Ala Gln Leu Gly Cys Phe Leu Ala Phe Met Thr Ala Glu Cys  
                   100                  105                  110  
 Leu Leu Leu Ala Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn  
                   115                  120                  125  
 Pro Leu Leu Tyr Met Val Leu Met Ser Pro Gly Ile Cys Phe Gln Leu  
                   130                  135                  140  
 Val Ala Ala Pro Tyr Ser Tyr Ser Phe Leu Val Ala Leu Phe His Ala  
                   145                  150                  155                  160  
 Ile Leu Thr Phe Arg Leu Cys Tyr Cys His Ser Asn Ala Ile Asn His  
                   165                  170                  175  
 Phe Tyr Cys Asp Asp Met Pro Leu Leu Arg Leu Thr Cys Ser Asp Thr  
                   180                  185                  190  
 His Ser Lys Gln Leu Trp Ile Phe Val Cys Ala Gly Ile Met Phe Ile  
                   195                  200                  205  
 Ser Ser Leu Leu Ile Val Phe Ile Ser Tyr Thr Phe Ile Ile Ser Ala  
                   210                  215                  220  
 Ile Leu Arg Met Arg Ser Ala Glu Gly Arg Arg Lys Ala Phe Ser Thr  
                   225                  230                  235                  240  
 Cys Gly Ser His Met Leu Ala Val Thr Ile Phe Tyr Gly Thr Leu Ile  
                   245                  250                  255  
 Phe Met Tyr Leu Gln Pro Ser Ser Asn His Ser Leu Asp Thr Asp Lys  
                   260                  265                  270  
 Met Ala Ser Val Phe Tyr Thr Val Ile Ile Pro Met Leu Asn Pro Leu  
                   275                  280                  285  
 Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Asp Ala Leu Lys Lys Leu  
                   290                  295                  300  
 Ile Ala Ser Lys Asn Gln Met Leu Ser Ser  
                   305                  310

<210> 1414

<211> 312

<212> PRT

<213> Mus musculus

<400> 1414

Met Ala Thr Glu Asn Cys Thr Val Val Thr Glu Phe Ile Leu Leu Gly  
   1                  5                  10                  15  
 Leu Thr Asp Arg Ala Glu Leu Lys Met Met Leu Phe Val Leu Phe Leu  
                   20                  25                  30  
 Val Ile Tyr Ala Val Thr Leu Leu Gly Asn Leu Gly Met Ile Leu Leu  
                   35                  40                  45  
 Ile Arg Ile Thr Pro Lys Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
                   50                  55                  60  
 Cys Leu Ser Phe Val Asp Ala Cys Tyr Ser Ser Val Ile Ala Pro Lys  
                   65                  70                  75                  80  
 Met Leu Ile Ser Phe Leu Val Val Thr Glu Thr Ile Ser Phe Ser Ala



Leu	Leu	Leu	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Asp	Asn	Val	Ile	Pro	His
				165					170					175	
Phe	Phe	Cys	Asp	Ile	Ser	Val	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr
			180					185					190		
Tyr	Ile	Asn	Glu	Leu	Met	Ile	Phe	Ile	Leu	Gly	Gly	Leu	Asp	Ile	Val
		195				200						205			
Ile	Pro	Phe	Ile	Leu	Ile	Val	Val	Ser	Tyr	Val	Gln	Ile	Val	Cys	Ser
	210					215					220				
Ile	Leu	Lys	Phe	Ser	Ser	Thr	Arg	Gly	Ile	Ala	Lys	Val	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Ile
				245					250					255	
Gly	Val	Tyr	Ile	Cys	Pro	Ser	Ala	Asn	Asn	Ser	Thr	Val	Lys	Glu	Ile
			260					265					270		
Val	Met	Ala	Leu	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Met	Lys	Glu	Ala	Leu			
	290					295					300				

<210> 1416  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1416

Met	Thr	Gly	Asn	Asn	Gln	Thr	Leu	Ile	Ser	Lys	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Leu	Pro	Ile	Leu	Ser	Glu	Tyr	His	Phe	Leu	Phe	Tyr	Ala	Leu	Phe	Leu
			20					25					30		
Ala	Met	Tyr	Leu	Thr	Thr	Ile	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Ala	Leu
		35				40						45			
Val	Arg	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Ile	Pro	Lys
65					70					75				80	
Leu	Leu	Gln	Asn	Met	Gln	Ser	Gln	Val	Pro	Ser	Ile	Ser	Tyr	Val	Gly
			85					90					95		
Cys	Leu	Thr	Gln	Leu	Tyr	Phe	Phe	Met	Val	Phe	Gly	Asp	Met	Glu	Ser
			100					105					110		
Phe	Leu	Leu	Val	Val	Met	Ala	Tyr	Asp	His	Tyr	Val	Ala	Ile	Cys	Phe
		115				120						125			
Pro	Leu	His	Tyr	Thr	Ser	Ile	Met	Ser	Thr	Lys	Phe	Cys	Thr	Ser	Leu
	130					135					140				
Val	Leu	Leu	Leu	Trp	Met	Leu	Thr	Thr	Ser	Asn	Ala	Met	Met	His	Thr
145					150					155					160
Leu	Leu	Met	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Lys	Asn	Val	Ile	Leu	His
			165						170					175	
Phe	Phe	Cys	Asp	Ile	Ser	Ala	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Thr
			180					185					190		
Phe	Val	Asn	Glu	Leu	Met	Ile	Phe	Ile	Met	Gly	Gly	Ile	Ile	Ile	Ile
		195				200						205			
Ile	Pro	Phe	Leu	Leu	Ile	Val	Met	Ser	Tyr	Val	Arg	Ile	Phe	Phe	Ser
	210					215					220				
Ile	Leu	Lys	Val	Pro	Ser	Thr	Gln	Gly	Ile	His	Lys	Val	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Ile



<210> 1418  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1418  
 Met Asn Asn Lys Thr Val Ile Thr Gln Phe Leu Leu Leu Gly Leu Pro  
 1 5 10 15  
 Ile Pro Pro Glu Tyr Gln His Leu Phe Tyr Ala Leu Phe Leu Ala Met  
 20 25 30  
 Tyr Leu Thr Thr Ile Leu Gly Asn Leu Leu Ile Ile Val Leu Ile Gln  
 35 40 45  
 Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser Asn Leu  
 50 55 60  
 Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys Leu Leu  
 65 70 75 80  
 Gln Asn Met Gln Ser Gln Asp Pro Ser Ile Pro Tyr Gly Gly Cys Leu  
 85 90 95  
 Ala Gln Ile Phe Phe Phe Met Leu Phe Gly Asp Met Glu Ser Phe Leu  
 100 105 110  
 Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu  
 115 120 125  
 His Tyr Thr Ser Ile Met Ser Pro Lys Val Cys Thr Phe Leu Val Leu  
 130 135 140  
 Leu Leu Trp Ile Leu Thr Thr Ser His Ala Thr Met Gln Ile Leu Leu  
 145 150 155 160  
 Thr Val Arg Leu Ser Phe Cys Glu Asn Asn Val Leu Leu Asn Phe Phe  
 165 170 175  
 Cys Asp Ile Phe Val Leu Leu Lys Leu Ala Cys Ser Asp Thr Tyr Val  
 180 185 190  
 Asn Asp Leu Met Ile Leu Ile Met Gly Gly Leu Ile Ile Val Ile Pro  
 195 200 205  
 Phe Leu Leu Ile Val Ile Ser Tyr Ala Arg Ile Ile Ser Ser Thr Leu  
 210 215 220  
 Lys Val Pro Ser Thr Gln Gly Ile His Lys Val Phe Ser Thr Cys Gly  
 225 230 235 240  
 Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Ile Ile Gly Leu  
 245 250 255  
 Tyr Leu Cys Pro Ser Gly Asn Asn Phe Ser Leu Lys Gly Ser Ala Met  
 260 265 270  
 Ala Met Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe Ile Tyr  
 275 280 285  
 Ser Leu Arg Asn Arg Asp Met Lys Arg Ala Leu Ile Arg Ile Ile Gly  
 290 295 300  
 Ser Lys Lys Ile Ser Leu  
 305 310

<210> 1419  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1419  
 Met Ala Gly Asn Asn Gln Thr Phe Ile Leu Glu Phe Leu Phe Leu Gly

1				5				10				15			
Leu	Pro	Ile	Pro	Ser	Glu	Tyr	Gln	Leu	Leu	Phe	Asn	Ala	Leu	Phe	Leu
			20					25					30		
Ala	Met	Tyr	Leu	Thr	Thr	Leu	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Leu
		35					40					45			
Val	Gln	Leu	Asp	Ser	His	Leu	His	Met	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Ile	Pro	Lys
65					70					75				80	
Leu	Leu	Gln	Asn	Met	His	Ser	Gln	Val	Pro	Thr	Ile	Ser	Tyr	Ala	Asp
				85					90					95	
Cys	Leu	Thr	Gln	Leu	Tyr	Phe	Phe	Leu	Val	Phe	Gly	Asp	Met	Glu	Ser
			100					105					110		
Phe	Leu	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe
		115					120					125			
Pro	Leu	His	Tyr	Thr	Ser	Ile	Met	Ser	Thr	Lys	Leu	Cys	Val	Ser	Leu
	130					135					140				
Val	Leu	Leu	Leu	Trp	Met	Leu	Thr	Ile	Phe	His	Ala	Leu	Leu	His	Thr
145					150					155				160	
Leu	Leu	Thr	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Lys	Asn	Val	Ile	Leu	His
			165						170					175	
Phe	Phe	Cys	Asp	Leu	Pro	Ala	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Thr
		180						185					190		
Phe	Val	Asn	Glu	Leu	Met	Ile	Phe	Ile	Leu	Gly	Gly	Ile	Ile	Ser	Ile
	195					200						205			
Ile	Pro	Phe	Leu	Leu	Ile	Gly	Met	Ser	Tyr	Val	Arg	Ile	Phe	Phe	Ser
	210				215						220				
Ile	Leu	Lys	Val	Pro	Ser	Thr	Gln	Gly	Ile	His	Lys	Val	Phe	Ser	Thr
225					230					235				240	
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Ile
			245						250					255	
Gly	Leu	Tyr	Leu	Cys	Pro	Ser	Ser	Asn	Asn	Ser	Thr	Leu	Lys	Lys	Thr
			260					265					270		
Ala	Met	Ala	Leu	Met	Tyr	Thr	Leu	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Ile	Lys	Arg	Ala	Leu	Ile	Arg	Val
	290				295						300				
Ile	Ser	Ser	Lys	Lys	Ile	Ser	Leu								
305					310										

<210> 1420  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1420  
 Met Ala Gly Lys Asn Gln Thr Leu Ile Leu Glu Phe Leu Leu Leu Gly  
 1 5 10 15  
 Leu Pro Ile Ser Ser Glu Tyr His Leu Leu Phe Tyr Ala Leu Leu Leu  
 20 25 30  
 Ala Met Tyr Leu Thr Thr Leu Leu Gly Asn Leu Leu Ile Ile Leu Leu  
 35 40 45  
 Val Arg Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Ile Pro Lys  
 65 70 75 80

Leu	Leu	Gln	Asn	Met	Gln	Ser	Gln	Val	Pro	Thr	Ile	Ser	Tyr	Ala	Asp	
				85					90					95		
Cys	Leu	Thr	Gln	Leu	Tyr	Phe	Phe	Met	Val	Phe	Gly	Asp	Met	Glu	Ser	
			100					105					110			
Phe	Leu	Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe	
		115					120					125				
Pro	Leu	His	Tyr	Thr	Ser	Ile	Met	Ser	Thr	Lys	Phe	Cys	Ala	Leu	Leu	
	130					135					140					
Val	Leu	Leu	Leu	Trp	Met	Leu	Thr	Ile	Ser	His	Ala	Leu	Leu	His	Thr	
145					150					155					160	
Leu	Leu	Met	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Lys	Asn	Val	Ile	Leu	His	
			165						170					175		
Phe	Phe	Cys	Asp	Ile	Ser	Ala	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Thr	
			180					185					190			
Tyr	Val	Asn	Glu	Leu	Met	Ile	Phe	Ile	Met	Gly	Gly	Ile	Ile	Ser	Ile	
	195						200					205				
Ile	Pro	Phe	Leu	Leu	Ile	Val	Met	Ser	Tyr	Val	Arg	Ile	Phe	Phe	Ser	
	210					215					220					
Ile	Leu	Lys	Val	Pro	Ser	Ser	Gln	Asp	Ile	His	Lys	Val	Phe	Ser	Thr	
225					230					235					240	
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Thr	Leu	Phe	Tyr	Gly	Thr	Ile	Ile	
			245						250					255		
Gly	Leu	Tyr	Leu	Cys	Pro	Ser	Gly	Asn	Asn	Ser	Thr	Val	Asn	Glu	Ile	
			260					265					270			
Ser	Met	Ala	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe	
		275					280					285				
Ile	Tyr	Arg	Leu	Arg	Asn	Arg	Asp	Met	Lys	Arg	Ala	Leu	Ile	Arg	Val	
	290				295						300					
Ile	Phe	Ser	Lys	Lys	Ile	Ser	Leu									
305					310											

<210> 1421  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1421

Met	Asp	Leu	Gly	Thr	Leu	Gly	Asn	Asp	Ser	Cys	Val	Ser	Thr	Phe	Val	
1				5					10					15		
Leu	Leu	Gly	Leu	Thr	Glu	Thr	Pro	Val	Leu	Arg	Pro	Ile	Leu	Phe	Val	
		20						25					30			
Ile	Phe	Leu	Leu	Ala	Tyr	Val	Ala	Thr	Leu	Gly	Gly	Asn	Phe	Ser	Ile	
	35						40					45				
Leu	Ala	Ala	Ile	Ile	Ile	Glu	Pro	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe	
	50					55					60					
Phe	Leu	Gly	Asn	Leu	Ser	Met	Leu	Asp	Val	Gly	Cys	Ile	Ser	Val	Thr	
65					70					75					80	
Val	Pro	Ala	Met	Leu	Lys	His	Phe	Leu	Ser	Asn	Asp	Arg	His	Ile	Pro	
			85					90					95			
Tyr	Gly	Ala	Cys	Leu	Ser	Gln	Leu	Phe	Phe	Phe	His	Leu	Leu	Ala	Gly	
		100					105						110			
Ala	Asp	Cys	Phe	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Ala	
		115					120					125				
Ile	Cys	His	Pro	Leu	Thr	Tyr	Asn	Thr	His	Met	Ser	Trp	Arg	Ile	Gln	
	130					135					140					
Lys	Ala	Ser	Val	Cys	Leu	Ser	Cys	Val	Phe	Ser	Phe	Ser	Asn	Ala	Leu	

145				150				155				160			
Thr	Gln	Thr	Val	Ala	Leu	Ser	Thr	Leu	Lys	Phe	Cys	Gly	Pro	Asn	Thr
				165				170						175	
Ile	Asn	His	Phe	Tyr	Cys	Asp	Leu	Pro	Gln	Leu	Phe	Gln	Leu	Ser	Cys
			180					185					190		
Ser	Ser	Ile	Gln	Leu	Asn	Glu	Gln	Leu	Leu	Phe	Val	Ala	Ala	Ala	Phe
		195					200					205			
Met	Gly	Val	Val	Pro	Leu	Val	Leu	Ile	Thr	Val	Ser	Tyr	Gly	His	Val
	210					215					220				
Ala	Ala	Ala	Val	Leu	Arg	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Thr	Val	Val	Gly	Ile	Phe	Tyr	Gly
			245						250					255	
Thr	Gly	Val	Phe	Ser	Tyr	Met	Arg	Leu	Gly	Ser	Val	Glu	Ser	Ser	Asp
		260						265					270		
Lys	Asp	Lys	Gly	Ile	Gly	Ile	Leu	Asn	Thr	Val	Ile	Ser	Pro	Met	Leu
	275						280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Pro	Asp	Val	Gln	Gly	Ala	Leu
	290					295					300				
Trp	Lys	Val	Leu	Thr	Gly	Arg									
305					310										

<210> 1422

<211> 315

<212> PRT

<213> Mus musculus

<400> 1422

Met	Glu	Pro	Gly	Ala	Trp	Gly	Asn	Arg	Thr	Ala	Val	Thr	Asp	Phe	Ile
1				5					10					15	
Leu	Leu	Gly	Leu	Thr	Gly	Asn	Val	Arg	Leu	Gln	Pro	Ile	Leu	Phe	Val
			20					25					30		
Val	Phe	Phe	Phe	Ala	Tyr	Ile	Val	Thr	Val	Gly	Gly	Asn	Leu	Ser	Ile
	35					40						45			
Leu	Ala	Ala	Ile	Phe	Val	Glu	Pro	Lys	Leu	His	Thr	Pro	Met	Tyr	Tyr
	50					55					60				
Phe	Leu	Gly	Asn	Leu	Ser	Leu	Leu	Asp	Ile	Gly	Cys	Ile	Ser	Val	Thr
65					70				75					80	
Val	Pro	Pro	Met	Leu	Val	Cys	Leu	Leu	Ala	His	Glu	Cys	Arg	Val	Pro
			85						90					95	
Tyr	Ala	Ala	Cys	Ile	Ser	Gln	Leu	Phe	Phe	His	Leu	Leu	Ala	Gly	
			100					105					110		
Val	Asp	Cys	His	Leu	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Ala
	115					120						125			
Ile	Cys	Gln	Pro	Leu	Thr	Tyr	Ser	Thr	Arg	Met	Ser	Arg	Glu	Val	Gln
	130					135					140				
Gly	Thr	Leu	Val	Gly	Ile	Cys	Cys	Thr	Val	Ser	Phe	Ile	Asn	Ala	Leu
145					150					155					160
Thr	His	Thr	Val	Ala	Val	Ser	Val	Leu	Asp	Phe	Cys	Gly	Pro	Asn	Val
			165						170					175	
Val	Asn	His	Phe	Tyr	Cys	Asp	Leu	Pro	Pro	Leu	Phe	Gln	Leu	Ser	Cys
			180					185					190		
Ser	Ser	Ile	Tyr	Leu	Asn	Gly	Gln	Leu	Leu	Phe	Val	Gly	Ala	Thr	Phe
		195				200						205			
Met	Gly	Val	Val	Pro	Met	Ile	Leu	Ile	Ser	Val	Ser	Tyr	Ala	His	Val
	210					215						220			



Ala	Ala	Ala	Val	Leu	Arg	Ile	Arg	Ser	Thr	Glu	Gly	Arg	Lys	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Thr	Val	Val	Cys	Ile	Phe	Tyr	Gly
			245						250					255	
Thr	Gly	Phe	Phe	Ser	Tyr	Met	Arg	Leu	Gly	Ser	Val	Ser	Ala	Ser	Asp
			260					265					270		
Lys	Asp	Lys	Gly	Ile	Gly	Ile	Leu	Asn	Thr	Ile	Leu	Ser	Pro	Met	Leu
	275						280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Pro	Asp	Val	Gln	Gly	Ala	Leu
	290					295					300				
Lys	Arg	Val	Leu	Thr	Gly	Lys	Arg	Tyr	Pro	Val					
305					310					315					

<210> 1423  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1423

Met	Thr	Glu	Asp	Asn	Tyr	Ser	Leu	Thr	Thr	Glu	Phe	Ile	Leu	Ile	Gly
1				5					10					15	
Phe	Ser	Asp	His	Pro	Asp	Leu	Lys	Ile	Leu	Leu	Phe	Leu	Val	Phe	Ser
			20					25					30		
Thr	Ile	Tyr	Leu	Val	Thr	Met	Val	Gly	Asn	Leu	Gly	Leu	Val	Ala	Leu
		35					40					45			
Ile	Tyr	Met	Glu	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Ile	Phe	Leu	Gly
	50					55					60				
Asn	Leu	Ala	Leu	Met	Asp	Ser	Cys	Cys	Ser	Cys	Ala	Ile	Thr	Pro	Lys
65					70					75					80
Met	Leu	Glu	Asn	Phe	Phe	Ser	Val	Asn	Lys	Arg	Ile	Ser	Leu	Tyr	Glu
				85					90					95	
Cys	Met	Ala	Gln	Phe	Tyr	Phe	Leu	Cys	Leu	Ala	Glu	Thr	Ala	Asp	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
			115				120					125			
Pro	Leu	Gln	Tyr	His	Thr	Met	Met	Ser	Lys	Lys	Leu	Cys	Leu	Gln	Met
	130					135					140				
Thr	Thr	Gly	Ala	Tyr	Ile	Ala	Gly	Asn	Leu	His	Ser	Met	Ile	His	Ile
145					150					155					160
Gly	Phe	Leu	Phe	Arg	Leu	Thr	Phe	Cys	Arg	Ser	His	Val	Ile	Lys	His
				165					170					175	
Phe	Phe	Cys	Asp	Val	Leu	Pro	Leu	Tyr	Arg	Leu	Ser	Cys	Val	Asp	Pro
			180					185					190		
Tyr	Ile	Asn	Glu	Leu	Met	Ile	Leu	Ile	Phe	Ser	Gly	Ser	Val	Gln	Thr
		195					200					205			
Phe	Ser	Ile	Ile	Ile	Val	Leu	Ile	Ser	Tyr	Phe	Cys	Ile	Ile	Phe	Thr
	210					215					220				
Ile	Phe	Thr	Met	Lys	Ser	Arg	Glu	Gly	Arg	Ser	Lys	Ala	Leu	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Phe	Leu	Ser	Val	Ser	Ile	Phe	Tyr	Gly	Ser	Leu	Leu
				245					250				255		
Tyr	Thr	Tyr	Ile	Arg	Pro	Ser	Ser	Ile	Asn	Glu	Gly	Asn	Glu	Asp	Ile
			260					265					270		
Pro	Val	Ala	Ile	Phe	Tyr	Thr	Leu	Val	Ile	Pro	Leu	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ile	Asn	Ala	Ile	Lys	Arg	Thr

290  
Met Asn Lys Gly  
305

295

300

<210> 1424  
<211> 309  
<212> PRT  
<213> Mus musculus

<400> 1424  
Met Leu Glu Gly Asn His Thr Met Lys His Glu Phe Ile Leu Thr Gly  
1 5 10 15  
Phe Thr Lys His Pro Glu Met Lys Gly Leu Leu Phe Ala Val Phe Phe  
20 25 30  
Phe Ile Tyr Leu Ile Thr Met Ile Gly Asn Met Gly Leu Val Ile Leu  
35 40 45  
Ile Cys Thr Glu Arg Ser Leu His Thr Pro Met Tyr Ile Phe Leu Gly  
50 55 60  
Asn Leu Ala Phe Ile Asp Ser Cys Cys Ala Cys Ala Ile Thr Pro Lys  
65 70 75 80  
Met Leu Glu Asn Phe Phe Ser Glu Asp Arg Ile Ile Ser Leu Tyr Glu  
85 90 95  
Cys Met Ala Gln Phe Tyr Phe Leu Ser Thr Val Glu Thr Ala Asp Cys  
100 105 110  
Phe Leu Leu Ser Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn  
115 120 125  
Pro Leu Gln Tyr His Thr Met Met Ser Lys Lys Leu Cys Leu Gln Met  
130 135 140  
Ile Thr Gly Ala Phe Ile Val Gly Asn Leu His Ser Met Val His Val  
145 150 155 160  
Gly Leu Leu Phe Arg Leu Ala Phe Cys Gly Ser Asn Gln Ile Asn His  
165 170 175  
Phe Tyr Cys Asp Ile Leu Pro Leu Tyr Arg Leu Ser Cys Val Asp Pro  
180 185 190  
Tyr Val Asn Glu Leu Val Leu Leu Val Phe Ser Ala Pro Ile Gln Val  
195 200 205  
Phe Thr Ile Ser Cys Val Leu Ile Ser Tyr Leu Phe Ile Val Tyr Thr  
210 215 220  
Ile Phe Gln Met Lys Ser Lys Glu Gly Arg Ile Lys Ala Phe Ser Thr  
225 230 235 240  
Cys Ala Ser His Phe Leu Ser Val Ser Leu Phe Tyr Gly Ser Leu Phe  
245 250 255  
Phe Ile Tyr Ile Lys Pro Asn Leu Leu Glu Glu Gly Asp Lys Asp Met  
260 265 270  
Pro Ala Ala Ile Leu Phe Thr Ile Val Val Pro Leu Leu Asn Pro Phe  
275 280 285  
Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Asn Val Leu Gln Lys Ile  
290 295 300  
Leu Gln Lys Asn Lys  
305

<210> 1425  
<211> 321  
<212> PRT  
<213> Mus musculus

<400> 1425

Met	Val	Glu	Glu	Asn	His	Thr	Met	Lys	Arg	Glu	Phe	Val	Leu	Thr	Gly
1				5					10					15	
Phe	Thr	Asp	His	Pro	Glu	Met	Lys	Gly	Leu	Leu	Phe	Ala	Val	Phe	Phe
			20					25					30		
Phe	Ile	Tyr	Leu	Ile	Thr	Met	Ile	Gly	Asn	Met	Gly	Leu	Val	Ile	Leu
		35					40					45			
Ile	Ser	Lys	Glu	Arg	Ser	Leu	His	Thr	Pro	Met	Tyr	Ile	Phe	Leu	Gly
	50					55					60				
Asn	Leu	Ala	Phe	Ile	Asp	Ser	Cys	Cys	Ala	Cys	Ala	Ile	Thr	Pro	Lys
65					70					75					80
Met	Leu	Glu	Asn	Phe	Phe	Ser	Glu	Asp	Arg	Ile	Ile	Ser	Leu	Tyr	Glu
				85					90					95	
Cys	Met	Ala	Gln	Phe	Tyr	Phe	Leu	Cys	Thr	Val	Glu	Thr	Ala	Asp	Cys
			100					105					110		
Phe	Leu	Leu	Ser	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
		115					120					125			
Pro	Leu	Gln	Tyr	His	Thr	Thr	Met	Ser	Lys	Lys	Leu	Cys	Leu	Gln	Met
	130					135						140			
Thr	Thr	Gly	Ala	Phe	Ile	Ala	Gly	Asn	Leu	His	Ser	Met	Val	His	Val
145					150					155					160
Gly	Leu	Leu	Phe	Arg	Leu	Ala	Phe	Cys	Gly	Ser	Asn	Gln	Ile	Asn	His
			165						170					175	
Phe	Tyr	Cys	Asp	Ile	Leu	Pro	Leu	Tyr	Arg	Leu	Ser	Cys	Val	Asp	Pro
		180						185					190		
Tyr	Ile	Asn	Glu	Leu	Val	Leu	Phe	Val	Phe	Ser	Gly	Ser	Ile	Gln	Val
	195					200						205			
Phe	Thr	Ile	Gly	Cys	Val	Leu	Ile	Ser	Tyr	Leu	Phe	Ile	Val	Tyr	Thr
	210					215					220				
Ile	Phe	Gln	Met	Lys	Ser	Lys	Glu	Gly	Arg	Ile	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Phe	Leu	Ser	Val	Ser	Leu	Phe	Tyr	Gly	Ser	Leu	Leu
			245						250					255	
Phe	Met	Tyr	Ile	Arg	Pro	Asn	Leu	Leu	Glu	Glu	Gly	Asp	Lys	Asp	Met
		260					265						270		
Pro	Ala	Ala	Ile	Leu	Phe	Thr	Ile	Val	Val	Pro	Leu	Leu	Asn	Pro	Phe
	275					280						285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Asn	Val	Leu	Gln	Lys	Ile
	290				295						300				
Leu	Gln	Lys	Lys	Ile	Ile	Ser	Lys	Asn	Phe	Lys	Gln	Ala	Ser	Ile	Ile
305					310					315					320
Val															

<210> 1426

<211> 317

<212> PRT

<213> Mus musculus

<400> 1426

Met	Met	Lys	Ala	Asn	His	Ser	Leu	Thr	Val	Glu	Phe	Ile	Leu	Ile	Gly
1				5					10					15	
Phe	Ser	Asp	His	Thr	Asp	Leu	Lys	Thr	Leu	Leu	Phe	Leu	Leu	Phe	Ser
			20					25					30		
Ala	Ile	Tyr	Leu	Val	Thr	Ile	Val	Gly	Asn	Leu	Gly	Leu	Val	Ala	Leu



Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
	115						120					125			
Pro	Leu	Gln	Tyr	His	Ser	Met	Met	Ser	Lys	Lys	Leu	Cys	Leu	Gln	Met
	130					135					140				
Thr	Met	Gly	Ser	Tyr	Ile	Ala	Gly	Asn	Leu	His	Pro	Met	Ile	Glu	Val
145					150					155					160
Gly	Leu	Leu	Leu	Arg	Leu	Thr	Phe	Cys	Arg	Ser	His	Val	Ile	Lys	His
				165					170					175	
Phe	Phe	Cys	Asp	Val	Leu	Pro	Leu	Tyr	Arg	Ile	Ser	Cys	Thr	Asp	Pro
			180					185					190		
Asn	Ile	Asn	Glu	Leu	Ile	Leu	Leu	Val	Leu	Ala	Gly	Ser	Ile	Gln	Val
	195						200					205			
Phe	Thr	Ile	Ser	Ile	Val	Leu	Val	Ser	Tyr	Ser	Cys	Ile	Leu	Phe	Thr
	210					215					220				
Ile	Phe	Thr	Met	Lys	Ser	Lys	Glu	Gly	Arg	Gly	Lys	Ala	Leu	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Phe	Leu	Ser	Val	Ser	Ile	Phe	Tyr	Gly	Ser	Leu	Leu
				245					250					255	
Phe	Met	Tyr	Ala	Gln	Pro	His	Ser	Ala	Asn	Glu	Gly	Asp	Lys	Asp	Met
			260					265					270		
Pro	Val	Ala	Ile	Phe	Tyr	Thr	Leu	Ile	Ile	Pro	Leu	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ile	Asn	Val	Met	Lys	Lys	Thr
	290					295					300				
Met	Lys	Arg	Arg												
305															

<210> 1428  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 1428

Met	Arg	Leu	Glu	Lys	Thr	Asn	His	Ser	Leu	Thr	Thr	Gln	Phe	Ile	Leu
1				5					10					15	
Val	Gly	Phe	Ser	Asp	His	Pro	Asp	Leu	Lys	Thr	Pro	Leu	Phe	Leu	Leu
			20					25					30		
Phe	Ser	Val	Ile	Tyr	Leu	Val	Thr	Met	Val	Gly	Asn	Leu	Gly	Leu	Val
		35					40					45			
Ala	Leu	Ile	Tyr	Met	Glu	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Ile	Phe
	50					55					60				
Leu	Gly	Asn	Leu	Ala	Leu	Met	Asp	Ser	Cys	Cys	Ser	Cys	Ala	Ile	Thr
65					70					75					80
Pro	Lys	Met	Leu	Glu	Asn	Phe	Phe	Ser	Val	Asp	Arg	Lys	Ile	Ser	Leu
				85					90					95	
Tyr	Glu	Cys	Met	Ala	Gln	Phe	Tyr	Phe	Leu	Cys	Leu	Ala	Glu	Thr	Ser
			100					105					110		
Asp	Cys	Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Cys	Asn	Pro	Leu	Gln	Tyr	His	Ser	Met	Met	Thr	Lys	Lys	Leu	Ser	Ile
	130					135					140				
Gln	Met	Ser	Ile	Gly	Thr	Phe	Ile	Ala	Ser	Asn	Leu	Ile	Ser	Ile	Leu
145					150					155					160
His	Val	Gly	Cys	Leu	Leu	Arg	Leu	Thr	Phe	Cys	Lys	Ser	Asn	Arg	Ile
				165					170					175	
Asp	His	Phe	Phe	Cys	Asp	Ile	Leu	Pro	Leu	Tyr	Arg	Leu	Ser	Cys	Thr

			180				185				190				
Asp	Pro	Phe	Ile	Asn	Glu	Leu	Met	Ile	Tyr	Ile	Phe	Ser	Met	Pro	Ile
		195					200					205			
Gln	Phe	Leu	Thr	Ile	Thr	Thr	Val	Leu	Val	Ser	Tyr	Phe	Cys	Ile	Leu
	210					215					220				
Leu	Thr	Ile	Phe	Lys	Met	Lys	Ser	Lys	Asp	Gly	Arg	Gly	Lys	Ala	Leu
225					230					235					240
Ser	Thr	Cys	Ala	Ser	His	Phe	Phe	Ser	Val	Ser	Ile	Phe	Tyr	Ala	Cys
			245						250					255	
Leu	Leu	Met	Tyr	Ile	Arg	Pro	Phe	Asp	Asp	Ser	Asn	Lys	Asp	Ile	Pro
			260					265					270		
Val	Ala	Ile	Phe	Tyr	Thr	Ile	Ile	Ile	Pro	Leu	Leu	Asn	Pro	Phe	Ile
	275						280					285			
Tyr	Ser	Leu	Arg	Asn	Thr	Glu	Val	Val	Asn	Ala	Val	Lys	Lys	Val	Met
	290					295					300				
Lys	Ile	Tyr	Thr	Ile	Phe	Lys	Arg	Ser	Ser	Ala	Ser	Ala	Ala	His	
305					310					315					

<210> 1429

<211> 309

<212> PRT

<213> Mus musculus

<400> 1429

Met	Thr	Glu	Asp	Asn	Tyr	Ser	Leu	Ala	Thr	Glu	Phe	Ile	Leu	Ile	Gly
1				5					10					15	
Phe	Ser	Asp	His	Pro	Asp	Leu	Lys	Thr	Leu	Leu	Phe	Leu	Val	Phe	Ser
			20					25					30		
Ala	Ile	Tyr	Leu	Val	Thr	Met	Val	Gly	Asn	Leu	Gly	Leu	Val	Thr	Leu
	35					40					45				
Ile	Tyr	Ile	Glu	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Ile	Phe	Leu	Gly
	50					55				60					
Asn	Leu	Ala	Leu	Met	Asp	Ser	Cys	Cys	Ser	Cys	Ala	Ile	Thr	Pro	Lys
65				70					75					80	
Met	Leu	Glu	Asn	Phe	Phe	Ser	Val	Asp	Arg	Arg	Ile	Ser	Leu	Tyr	Glu
			85					90					95		
Cys	Met	Ala	Gln	Phe	Tyr	Phe	Leu	Cys	Leu	Ala	Glu	Thr	Thr	Asp	Cys
		100						105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
	115					120						125			
Pro	Leu	Gln	Tyr	His	Ser	Met	Met	Ser	Lys	Lys	Leu	Cys	Leu	Gln	Met
	130					135					140				
Thr	Thr	Gly	Ala	Tyr	Ile	Ala	Gly	Asn	Leu	His	Ser	Met	Ile	His	Ile
145					150					155					160
Gly	Phe	Leu	Phe	Arg	Leu	Thr	Phe	Cys	Arg	Ser	His	Val	Ile	Lys	His
			165					170						175	
Phe	Phe	Cys	Asp	Val	Leu	Pro	Leu	Tyr	Arg	Leu	Ser	Cys	Val	Asp	Pro
		180						185				190			
Tyr	Ile	Asn	Glu	Leu	Met	Ile	Leu	Ile	Phe	Ser	Gly	Ser	Leu	Gln	Thr
	195					200						205			
Phe	Thr	Ile	Thr	Ile	Val	Leu	Ile	Ser	Tyr	Phe	Cys	Ile	Leu	Phe	Thr
	210					215					220				
Ile	Phe	Thr	Met	Lys	Ser	Arg	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr
225				230						235				240	
Cys	Ala	Ser	His	Phe	Leu	Ser	Val	Ser	Ile	Phe	Tyr	Gly	Ser	Leu	Leu
			245						250					255	

Tyr Met Tyr Ile Arg Pro Ser Ser Leu Asn Glu Gly Tyr Lys Asp Ile  
                   260                                  265                                  270  
 Pro Val Ala Ile Phe Tyr Thr Leu Val Ile Pro Leu Leu Asn Pro Phe  
                   275                                  280                                  285  
 Ile Tyr Ser Leu Arg Asn Lys Glu Val Ile Asn Val Met Lys Arg Ala  
                   290                                  295                                  300  
 Met Lys Lys Arg Leu  
 305

<210> 1430  
 <211> 307  
 <212> PRT  
 <213> Mus musculus

<400> 1430  
 Met Ala Glu Arg Asn Trp Thr Leu Val Thr Glu Phe Val Leu Thr Gly  
   1                                  5                                  10                                  15  
 Leu Thr Glu Arg Pro Glu Leu Gln Val Pro Leu Phe Leu Val Phe Leu  
                   20                                  25                                  30  
 Ile Ile Tyr Leu Thr Thr Met Val Gly Asn Leu Gly Leu Ile Ala Leu  
                   35                                  40                                  45  
 Ile Trp Lys Asp Pro His Leu His Thr Pro Met Tyr Val Phe Leu Ser  
                   50                                  55                                  60  
 Ser Leu Ala Phe Ala Asp Val Cys Thr Ser Ser Ser Val Thr Pro Arg  
   65                                  70                                  75                                  80  
 Met Leu Val Asn Phe Leu Ser Thr Asp His Glu Ile Ser Leu Val Glu  
                                   85                                  90                                  95  
 Cys Phe Thr Gln Phe Tyr Phe Phe Cys Ser Ser Ala Thr Thr Glu Cys  
                   100                                  105                                  110  
 Phe Leu Leu Leu Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn  
                   115                                  120                                  125  
 Pro Leu Leu Tyr Pro Val Val Met Ser Asn Lys Leu Cys Thr Gln Phe  
                   130                                  135                                  140  
 Ile Val Val Thr Tyr Phe Ile Gly Val Leu Asn Ser Thr Ile His Val  
   145                                  150                                  155                                  160  
 Gly Leu Leu Ile Arg Leu Thr Phe Cys Arg Ser Asn Val Ile Asp Tyr  
                                   165                                  170                                  175  
 Phe Tyr Cys Glu Ile Val Lys Leu Leu Thr Ile Ser Cys Thr Asp Pro  
                   180                                  185                                  190  
 Ser Ile Asn Met Leu Val Val Phe Ile Cys Ser Ile Phe Ile Gln Ala  
                   195                                  200                                  205  
 Ser Thr Leu Ala Asn Ile Val Val Ser Tyr Thr Arg Val Leu Phe Ala  
                   210                                  215                                  220  
 Ile Leu Arg Lys Lys Ser Glu Lys Gly Arg Ser Lys Ala Phe Ser Thr  
   225                                  230                                  235                                  240  
 Cys Ser Ala His Leu Leu Ser Val Ser Leu Phe Tyr Gly Thr Leu Phe  
                                   245                                  250                                  255  
 Leu Ile Tyr Ile Leu Pro Gly Ser Glu Pro Ala Glu Asp Lys Glu Gln  
                   260                                  265                                  270  
 Leu Leu Ser Ile Val Tyr Thr Ile Ile Ile Pro Leu Leu Asn Pro Phe  
                   275                                  280                                  285  
 Ile Tyr Ser Leu Arg Asn Lys Glu Val Leu Gly Ala Leu Arg Arg Leu  
                   290                                  295                                  300  
 Ile Lys Lys  
 305

<210> 1431  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1431

Met	Ala	Glu	Gly	Asn	Arg	Thr	Leu	Val	Thr	Glu	Phe	Ile	Leu	Met	Gly
1				5					10					15	
Leu	Thr	Asp	His	Pro	Thr	Leu	Lys	Ala	Ala	Leu	Phe	Pro	Leu	Phe	Leu
			20					25					30		
Val	Ile	Tyr	Leu	Ile	Thr	Met	Val	Gly	Asn	Leu	Gly	Leu	Ile	Ala	Leu
		35					40					45			
Ile	Trp	Lys	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50					55					60				
Ser	Leu	Ala	Phe	Ala	Asp	Ser	Cys	Thr	Thr	Ser	Ser	Val	Thr	Pro	Arg
65					70					75					80
Met	Ile	Leu	Asn	Phe	Leu	Ser	Thr	Asn	His	Glu	Ile	Thr	Leu	Val	Glu
				85					90					95	
Cys	Phe	Ala	Gln	Phe	Tyr	Phe	Met	Gly	Ser	Ser	Ala	Thr	Thr	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Ser	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Asn
	115						120					125			
Pro	Leu	Leu	Tyr	Pro	Val	Leu	Met	Ser	Asn	Arg	Leu	Cys	Thr	Gln	Phe
	130					135					140				
Ile	Ala	Val	Ala	Tyr	Leu	Leu	Gly	Ala	Leu	His	Leu	Ala	Ile	His	Val
145					150					155					160
Gly	Leu	Leu	Leu	Arg	Leu	Thr	Phe	Cys	Arg	Ser	Asn	Ile	Ile	Gln	Tyr
				165					170					175	
Tyr	Tyr	Cys	Glu	Ile	Leu	Gln	Leu	Phe	Asn	Ile	Ser	Cys	Ile	Asp	Pro
		180						185					190		
Thr	Ile	Asn	Val	Phe	Val	Leu	Leu	Ile	Leu	Ala	Thr	Ser	Ile	Gln	Val
	195						200					205			
Phe	Thr	Phe	Val	Thr	Val	Leu	Val	Ser	Tyr	Ile	Arg	Val	Leu	Phe	Ala
	210					215					220				
Ile	Leu	Arg	Lys	Lys	Ser	Asp	Lys	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ala	His	Leu	Leu	Ser	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Leu	Phe
			245						250					255	
Leu	Ile	Tyr	Val	Cys	Pro	Gly	Ser	Gly	Pro	Val	Gly	Asp	Lys	Glu	Lys
		260						265					270		
Met	Leu	Ser	Leu	Phe	Tyr	Thr	Val	Ile	Ile	Pro	Leu	Leu	Asn	Pro	Phe
	275						280					285			
Val	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ile	Ser	Ala	Phe	Arg	Arg	Val
	290				295						300				
Met	Lys	Asn	Thr												
305															

<210> 1432  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 1432

Met	Thr	Glu	Asp	Asn	Tyr	Ser	Leu	Ala	Thr	Glu	Phe	Ile	Leu	Thr	Gly
1				5					10					15	



Phe Ser Asp Tyr Pro Asp Leu Lys Ile Leu Leu Phe Leu Val Phe Ser  
20 25 30  
Ala Ile Tyr Leu Val Thr Met Val Gly Asn Leu Gly Leu Val Ala Leu  
35 40 45  
Ile Tyr Met Glu Ser Arg Leu His Thr Pro Met Tyr Ile Phe Leu Gly  
50 55 60  
Asn Leu Ala Leu Met Asp Ser Cys Cys Ser Cys Ala Ile Thr Pro Lys  
65 70 75 80  
Met Leu Glu Asn Phe Phe Ser Val Asp Arg Arg Ile Ser Leu Tyr Glu  
85 90 95  
Cys Met Ala Gln Phe Tyr Phe Leu Cys Leu Ala Glu Thr Ala Asp Cys  
100 105 110  
Phe Leu Leu Ala Ala Met Ala Asp Asp Arg Tyr Val Ala Ile Cys Asn  
115 120 125  
Pro Leu Gln Tyr His Thr Met Met Ser Lys Lys Leu Cys Leu Gln Met  
130 135 140  
Thr Thr Gly Ala Tyr Ile Ala Gly Asn Ile His Ser Met Ile Gln Ile  
145 150 155 160  
Gly Phe Leu Phe Arg Leu Thr Phe Cys Arg Ser His Val Ile Lys His  
165 170 175  
Phe Phe Cys Asp Val Leu Pro Leu Tyr Arg Leu Ser Cys Val Asp Pro  
180 185 190  
Tyr Ile Asn Glu Leu Met Ile Leu Ile Phe Ser Gly Ile Ala Gln Thr  
195 200 205  
Phe Thr Ile Thr Ile Val Leu Ile Ser Tyr Phe Cys Ile Leu Phe Thr  
210 215 220  
Ile Phe Thr Met Lys Ser Arg Glu Gly Arg Arg Lys Ala Leu Ser Thr  
225 230 235 240  
Cys Ala Ser His Phe Leu Ser Val Ser Ile Phe Tyr Gly Ser Leu Leu  
245 250 255  
Tyr Met Tyr Ile Arg Pro Ser Ser Leu Asn Glu Gly Tyr Lys Asp Ile  
260 265 270  
Pro Val Ala Ile Cys Tyr Thr Leu Ile Ile Pro Leu Leu Asn Pro Phe  
275 280 285  
Ile Tyr Ser Leu Arg Asn Lys Glu Val Ile Asn Val Met Lys Glu Gln  
290 295 300  
Cys Arg Asp Asn Cys Asn Ile Leu Lys Ser Phe Phe Glu Asn  
305 310 315

<210> 1433  
<211> 305  
<212> PRT  
<213> Mus musculus

<400> 1433  
Met Glu Lys Asn Ser Thr Leu Met Thr Glu Phe Val Leu Arg Gly Ile  
1 5 10 15  
Thr Asp Arg Pro Glu Leu Gln Val Pro Leu Phe Leu Val Phe Phe Phe  
20 25 30  
Ile Tyr Val Thr Thr Met Val Gly Asn Leu Gly Leu Ile Phe Leu Ile  
35 40 45  
Trp Lys Asp Pro His Leu His Thr Pro Met Tyr Leu Phe Leu Gly Asn  
50 55 60  
Leu Ala Phe Ala Asp Ala Cys Thr Ser Ser Ser Val Thr Pro Lys Met  
65 70 75 80  
Leu Met Lys Phe Leu Asn Lys Asn Asp Ile Ile Ser Arg Gly Glu Cys



Leu	Leu	Phe	Arg	Leu	Thr	Phe	Cys	Lys	Ser	Asn	Ile	Ile	Asp	His	Phe	
				165					170					175		
Tyr	Cys	Glu	Ile	Leu	Gln	Leu	Tyr	Thr	Ile	Ser	Cys	Thr	Asp	Pro	Ser	
				180				185					190			
Leu	Asn	Thr	Leu	Val	Val	Phe	Ile	Cys	Ala	Ser	Ser	Ile	Gln	Ile	Ser	
		195					200					205				
Thr	Ser	Val	Thr	Ile	Ile	Val	Ser	Tyr	Ala	Arg	Val	Leu	Phe	Ala	Val	
		210				215					220					
Leu	Asn	Met	Lys	Ser	Glu	Arg	Gly	Arg	Arg	Lys	Ala	Phe	Phe	Thr	Cys	
225					230					235					240	
Ser	Ala	His	Leu	Leu	Ser	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Leu	Leu	Phe	
				245					250					255		
Met	Tyr	Val	Ser	Pro	Gly	Ser	Gly	Ser	Gly	Lys	Gln	Lys	Asp	Lys	Ile	
			260					265					270			
Tyr	Ser	Leu	Phe	Tyr	Thr	Val	Val	Ile	Pro	Leu	Leu	Asn	Pro	Phe	Ile	
		275				280						285				
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Leu	Gly	Ala	Leu	Lys	Lys	Phe	Ile	
		290				295					300					
Lys	Cys															
305																

<210> 1435  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1435

Met	Leu	Thr	Gly	Lys	Ser	Val	Leu	Asn	Gln	Ser	Gly	Thr	Thr	Glu	Phe	
1				5					10					15		
Val	Phe	Arg	Val	Phe	Thr	Thr	Val	Pro	Glu	Phe	Gln	Ala	Leu	Leu	Phe	
			20					25					30			
Leu	Leu	Phe	Leu	Leu	Leu	Tyr	Leu	Met	Ile	Leu	Cys	Gly	Asn	Ala	Ala	
		35				40					45					
Ile	Ile	Trp	Val	Val	Cys	Thr	His	Ser	Ala	Leu	His	Thr	Pro	Met	Tyr	
	50				55						60					
Phe	Phe	Leu	Ser	Ser	Leu	Ser	Val	Leu	Glu	Ile	Phe	Tyr	Thr	Thr	Asp	
65				70					75						80	
Val	Val	Pro	Leu	Met	Leu	Ser	Asn	Ile	Phe	Gly	Ala	Gln	Lys	Pro	Ile	
			85					90					95			
Ser	Leu	Ala	Gly	Cys	Gly	Thr	Gln	Met	Phe	Phe	Phe	Val	Thr	Leu	Gly	
		100					105						110			
Ser	Thr	Asp	Cys	Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	
		115				120						125				
Ala	Ile	Cys	His	Pro	Leu	His	Tyr	Ser	Leu	Ile	Met	Thr	Lys	Lys	Leu	
	130					135					140					
Cys	Val	Gln	Met	Val	Met	Gly	Ser	Trp	Ser	Leu	Ala	Leu	Phe	Leu	Ser	
145				150					155						160	
Leu	Gln	Leu	Thr	Ala	Leu	Ile	Phe	Thr	Leu	Pro	Phe	Cys	Gly	His	Asp	
			165					170					175			
Gln	Glu	Ile	Asn	His	Phe	Leu	Cys	Asp	Val	Pro	Pro	Val	Leu	Arg	Leu	
		180					185						190			
Ala	Cys	Ala	Asp	Ile	His	Val	His	Gln	Ala	Val	Leu	Tyr	Val	Val	Gly	
		195				200						205				
Ile	Leu	Val	Leu	Thr	Val	Pro	Phe	Leu	Leu	Ile	Cys	Ile	Ser	Tyr	Val	
	210					215					220					
Phe	Ile	Ala	Ser	Thr	Ile	Leu	Arg	Met	Arg	Ser	Ala	Glu	Gly	Arg	Gln	

225		230		235		240									
Arg	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Thr	Val	Val	Leu	Leu	Gln
				245					250					255	
Tyr	Gly	Cys	Cys	Ser	Leu	Val	Tyr	Leu	Arg	Pro	Arg	Ser	Ser	Thr	Ser
			260					265					270		
Glu	Asp	Glu	Asp	Arg	Gln	Ile	Ala	Leu	Val	Tyr	Thr	Phe	Val	Thr	Pro
		275					280					285			
Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly
	290					295					300				
Ala	Leu	Lys	Asn	Ser	Ile	Phe	His	Lys	Ala	Val					
305					310					315					

<210> 1436  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1436

Met	Asn	Met	Asp	Gln	Gly	Asn	Gln	Thr	Ser	Ile	Ser	Glu	Phe	Ile	Leu
1				5				10						15	
Leu	Gly	Leu	Ser	Asn	Gln	Ala	Glu	Lys	Gln	Lys	Leu	Ile	Phe	Val	Ile
			20					25					30		
Phe	Leu	Ser	Met	Tyr	Leu	Val	Thr	Val	Ile	Gly	Asn	Ser	Leu	Ile	Ile
		35					40					45			
Leu	Ala	Ile	Gly	Leu	Asp	Ile	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe
	50					55					60				
Leu	Ala	Asn	Leu	Ser	Phe	Ala	Asp	Ile	Ser	Ser	Ser	Ser	Thr	Ser	Val
65					70					75					80
Pro	Lys	Met	Leu	Met	Asn	Ile	Gln	Thr	Asn	Ser	Gln	Ser	Ile	Ser	Tyr
			85						90					95	
Glu	Gly	Cys	Ile	Thr	Gln	Met	Tyr	Phe	Ser	Ile	Val	Phe	Val	Val	Ile
			100					105					110		
Asp	Asn	Phe	Leu	Leu	Gly	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Cys	His	Pro	Leu	Asn	Tyr	Thr	Asn	Ile	Met	His	Pro	Arg	Phe	Cys	Leu
	130					135					140				
Leu	Leu	Ser	Phe	Cys	Pro	Trp	Ala	Leu	Ser	Asn	Ile	Val	Ala	Leu	Thr
145					150					155					160
His	Thr	Leu	Leu	Ala	Asn	Gln	Leu	Ile	Phe	Cys	Asn	His	Asn	Thr	Ile
			165						170					175	
Gln	His	Phe	Phe	Cys	Asp	Leu	Ala	Pro	Leu	Ile	Lys	Leu	Ser	Cys	Ser
			180					185						190	
Asp	Ala	Met	Ile	Asn	Glu	Leu	Val	Lys	Phe	Val	Val	Gly	Leu	Ser	Val
		195					200					205			
Ile	Thr	Phe	Pro	Phe	Ala	Leu	Ile	Leu	Phe	Ser	Tyr	Val	Cys	Ile	Ile
	210					215					220				
Arg	Asp	Val	Leu	Arg	Ile	Ser	Ser	Thr	Glu	Gly	Lys	Trp	Lys	Ala	Phe
225					230					235					240
Ser	Thr	Cys	Gly	Ser	His	Leu	Thr	Ile	Val	Phe	Leu	Phe	Tyr	Gly	Thr
			245						250					255	
Ile	Val	Gly	Val	Tyr	Phe	Phe	Pro	Ser	Ser	Thr	His	Pro	Glu	Asp	Thr
			260					265					270		
Asp	Lys	Ile	Gly	Ala	Val	Leu	Phe	Thr	Val	Val	Thr	Pro	Met	Leu	Asn
		275					280					285			
Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Gly	Ala	Leu	Arg
	290					295					300				

Lys Leu Ile Asn Lys Ser His Leu Leu Pro Leu Met Ser  
 305 310 315

<210> 1437  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1437  
 Met Gly Gly Asn Gln Thr Leu Ile Thr Gln Phe Ile Leu Leu Gly Phe  
 1 5 10 15  
 Pro Leu Ser Pro Arg Met Gln Met Leu Leu Phe Ala Leu Phe Ser Leu  
 20 25 30  
 Phe Tyr Ala Phe Thr Leu Leu Gly Asn Gly Thr Ile Leu Gly Leu Ile  
 35 40 45  
 Cys Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser His  
 50 55 60  
 Leu Ala Ile Val Asp Ile Ala Tyr Ala Cys Asn Thr Val Pro Gln Met  
 65 70 75 80  
 Leu Val Asn Leu Met Asp Pro Ala Lys Pro Ile Ser Phe Ala Gly Cys  
 85 90 95  
 Met Thr Gln Thr Phe Leu Phe Leu Thr Phe Ala His Thr Glu Cys Leu  
 100 105 110  
 Leu Leu Val Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys His Pro  
 115 120 125  
 Leu Arg Tyr Thr Ala Ile Met Ser Trp Arg Val Cys Val Ile Leu Val  
 130 135 140  
 Leu Thr Ser Trp Ile Leu Gly Val Leu Leu Ala Leu Val His Leu Val  
 145 150 155 160  
 Leu Leu Leu Pro Leu Pro Phe Cys Gly Ser Gln Lys Val Asn His Phe  
 165 170 175  
 Phe Cys Glu Ile Ile Ala Val Leu Lys Leu Ala Cys Ser Asp Thr Arg  
 180 185 190  
 Ile Asn Glu Leu Met Val Leu Ala Gly Ala Val Ser Val Leu Val Gly  
 195 200 205  
 Pro Phe Ser Ser Ile Val Val Ser Tyr Ala His Ile Leu Cys Ala Ile  
 210 215 220  
 Leu Lys Ile Lys Ser Gln Gln Gly Arg Gln Lys Ala Phe Ser Thr Cys  
 225 230 235 240  
 Ser Ser His Leu Cys Val Val Gly Leu Phe Tyr Gly Thr Ala Ile Val  
 245 250 255  
 Met Tyr Ile Gly Pro Gln His Gly Lys Ser Asn Glu Gln Lys Lys Tyr  
 260 265 270  
 Leu Leu Leu Phe His Ser Leu Phe Asn Pro Met Leu Asn Pro Leu Ile  
 275 280 285  
 Tyr Ser Leu Arg Asn Lys Glu Val Lys Ser Ala Leu Lys Arg Thr Leu  
 290 295 300  
 Leu Lys Glu Asp Thr Ser  
 305 310

<210> 1438  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1438

Met	Lys	Arg	Asp	Asn	Ala	Thr	Trp	Val	Ser	Glu	Phe	Ile	Leu	Met	Gly
1				5					10					15	
Leu	Ser	Ser	Asp	Lys	His	Ile	Gln	Ala	Gly	Leu	Phe	Val	Leu	Phe	Gly
			20					25					30		
Val	Ile	Tyr	Leu	Leu	Thr	Leu	Leu	Gly	Asn	Gly	Leu	Ile	Val	Leu	Leu
		35					40					45			
Ile	Ala	Leu	Asp	Pro	Arg	Leu	His	Leu	Pro	Met	Tyr	Phe	Phe	Leu	Cys
	50					55					60				
His	Leu	Ser	Val	Val	Asp	Ile	Cys	Tyr	Thr	Ser	Ser	Gly	Val	Pro	Gln
65					70					75					80
Met	Leu	Ala	His	Phe	Leu	Met	Glu	Lys	Lys	Thr	Ile	Ser	Phe	Ala	Leu
				85					90					95	
Cys	Gly	Thr	Gln	Leu	Phe	Phe	Ala	Leu	Thr	Leu	Gly	Gly	Thr	Glu	Phe
			100					105					110		
Leu	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys	Asn
			115				120					125			
Pro	Leu	Arg	Tyr	Thr	Val	Val	Met	Asn	Pro	Arg	Leu	Cys	Met	Gly	Leu
	130					135					140				
Ala	Gly	Val	Ser	Trp	Phe	Val	Gly	Val	Val	Asn	Ser	Ala	Val	Glu	Thr
145					150					155					160
Ala	Val	Thr	Met	Ser	Leu	Pro	Thr	Cys	Gly	His	Asn	Val	Leu	Asn	His
				165					170					175	
Val	Ala	Cys	Glu	Thr	Leu	Ala	Leu	Val	Arg	Leu	Ala	Cys	Val	Asp	Ile
			180					185					190		
Thr	Leu	Asn	Gln	Val	Val	Ile	Leu	Ala	Ser	Ser	Val	Val	Val	Leu	Leu
		195					200					205			
Val	Pro	Cys	Ser	Leu	Val	Ser	Leu	Ser	Tyr	Ala	His	Ile	Val	Ala	Ala
	210					215					220				
Ile	Met	Lys	Ile	Arg	Ser	Thr	Gln	Gly	Arg	Arg	Lys	Ala	Phe	Glu	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Thr	Val	Val	Ser	Met	Ser	Tyr	Gly	Met	Ala	Leu
				245					250					255	
Phe	Thr	Tyr	Met	Gln	Pro	Arg	Ser	Thr	Ala	Ser	Ala	Glu	Gln	Asp	Lys
			260					265					270		
Leu	Val	Val	Leu	Phe	Tyr	Ala	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Ala	Ala	Phe	Ser	Arg	Val
	290					295					300				
Leu	Met	Lys	Asn	Ile	Glu	Ser	Lys	Asn							
305					310										

<210> 1439

<211> 317

<212> PRT

<213> Mus musculus

<400> 1439

Met	Glu	Thr	Asn	Asn	Glu	Thr	Gln	Leu	His	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Ser	Asp	Trp	Asp	Ser	Gln	Val	Ser	Leu	Phe	Val	Leu	Phe	Leu
			20					25					30		
Leu	Met	Tyr	Leu	Val	Thr	Val	Leu	Gly	Asn	Phe	Leu	Ile	Ile	Val	Leu
		35					40					45			
Ile	Arg	Leu	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Thr
	50					55					60				

Asn	Leu	Ser	Leu	Val	Asp	Ala	Ser	Tyr	Ala	Thr	Ser	Ile	Val	Pro	Gln
65					70					75					80
Leu	Leu	Ala	His	Phe	Leu	Ala	Thr	His	Lys	Ala	Ile	Pro	Phe	Leu	Ser
			85						90					95	
Cys	Ala	Ala	Gln	Leu	Phe	Phe	Ser	Leu	Gly	Leu	Gly	Gly	Ile	Glu	Phe
			100					105					110		
Leu	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys	Asp
		115					120					125			
Pro	Leu	Arg	Tyr	Ser	Val	Ile	Met	His	Ala	Gly	Leu	Cys	Thr	Arg	Leu
	130					135					140				
Val	Ile	Thr	Ser	Trp	Val	Ser	Gly	Ser	Ile	Asn	Ser	Leu	Val	His	Thr
145					150					155					160
Ala	Ile	Thr	Phe	Gln	Leu	Pro	Met	Cys	Thr	Asn	Lys	Tyr	Ile	Asp	His
				165					170					175	
Ile	Ala	Cys	Glu	Thr	Leu	Ala	Val	Val	Arg	Leu	Ala	Cys	Val	Asp	Thr
			180					185					190		
Ser	Ser	Asn	Lys	Ile	Ala	Ile	Met	Val	Ser	Ser	Ile	Val	Leu	Leu	Met
		195					200					205			
Thr	Pro	Phe	Phe	Leu	Val	Leu	Leu	Ser	Tyr	Ile	Gln	Ile	Ile	Ser	Thr
	210					215					220				
Ile	Leu	Lys	Ile	Gln	Ser	Thr	Glu	Gly	Arg	Trp	Lys	Ala	Phe	His	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Thr	Met	Val	Val	Leu	Cys	Tyr	Gly	Met	Ala	Ile
				245					250					255	
Phe	Thr	Tyr	Ile	Gln	Pro	His	Ser	Ser	Pro	Ser	Val	Leu	Gln	Glu	Lys
		260					265						270		
Leu	Met	Ser	Leu	Phe	Tyr	Ala	Ile	Leu	Thr	Pro	Met	Leu	Asn	Pro	Met
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Gly	Ala	Trp	Gln	Lys	Leu
	290					295					300				
Leu	Gly	Lys	Phe	Ser	Gly	Phe	Ala	Ser	Lys	Leu	Ala	Thr			
305					310						315				

<210> 1440  
 <211> 304  
 <212> PRT  
 <213> Mus musculus

<400> 1440

Met	Ala	Arg	Glu	Asn	Asn	Val	Thr	Glu	Leu	Ile	Ile	Thr	Gly	Leu	Phe
1				5					10					15	
Gln	Asp	Pro	Asn	Val	Gln	Lys	Val	Cys	Phe	Val	Leu	Phe	Leu	Pro	Val
			20					25					30		
Tyr	Leu	Ala	Thr	Val	Leu	Gly	Asn	Gly	Leu	Ile	Val	Ala	Met	Val	Ile
		35					40					45			
Val	Ser	Lys	Ser	Leu	His	Ser	Pro	Met	Tyr	Ile	Phe	Leu	Ser	Ser	Leu
	50					55					60				
Ser	Leu	Val	Glu	Ile	Cys	Tyr	Ser	Ser	Thr	Val	Val	Pro	Lys	Phe	Ile
65					70					75					80
Thr	Asp	Leu	Leu	Ala	Lys	Val	Lys	Thr	Ile	Ser	Leu	Lys	Gly	Cys	Leu
				85					90					95	
Ala	Gln	Ile	Phe	Phe	Phe	His	Phe	Leu	Gly	Val	Ala	Glu	Ile	Phe	Leu
			100					105					110		
Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Met	Asn	Ile	Met	Ser	Arg	Gln	Val	Cys	His	Val	Leu	Val	Ala

130		135		140
Val Ser Trp Leu Gly Gly Phe Leu His Ser Ile Ile Gln Val Leu Ile				
145		150		160
Ser Ile Gln Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Tyr Phe				
	165		170	175
Cys Asp Leu Gln Pro Leu Phe Lys Leu Ala Cys Thr Asp Thr Phe Val				
	180		185	190
Glu Ser Val Ile Val Met Ala Asn Ser Gly Leu Ile Ala Leu Cys Ser				
	195		200	205
Phe Leu Val Leu Val Ser Ser Tyr Val Ile Ile Leu Val Asn Leu Arg				
	210		215	220
Lys His Ser Ala Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Ala Ser				
225		230		235
His Ile Thr Val Val Val Leu Phe Phe Gly Pro Ala Ile Phe Leu Tyr				
	245		250	255
Met Arg Pro Ser Ser Thr Phe Thr Glu Asp Lys Leu Val Ala Val Phe				
	260		265	270
Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Ile Ile Tyr Thr Leu Arg				
	275		280	285
Asn Ala Glu Val Lys Asn Ala Val Arg Lys Leu Trp Gly Lys Arg Ile				
290		295		300

<210> 1441  
 <211> 305  
 <212> PRT  
 <213> Mus musculus

<400> 1441

Met Ala Asn Lys Asn Asn Val Thr Glu Leu Ile Phe Thr Gly Leu Phe				
1	5	10	15	
Gln Asp Pro Glu Val Gln Lys Val Cys Phe Val Leu Phe Leu Pro Val				
	20	25	30	
Tyr Leu Ala Thr Leu Leu Gly Asn Ser Leu Ile Leu Val Ala Val Ser				
	35	40	45	
Ile Ser Lys Thr Leu His Ser Pro Met Tyr Phe Phe Leu Ser Ser Leu				
	50	55	60	
Ser Leu Val Glu Ile Cys Tyr Ser Ser Thr Ile Val Pro Lys Phe Ile				
65	70	75	80	
Thr Asp Leu Leu Ala Lys Val Lys Thr Ile Ser Leu Lys Gly Cys Leu				
	85	90	95	
Thr Gln Ile Phe Phe Ser His Phe Phe Gly Val Val Glu Val Ile Leu				
	100	105	110	
Leu Val Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu				
	115	120	125	
His Tyr Met Asn Ile Met Ser Arg Gln Val Cys His Met Leu Val Ala				
	130	135	140	
Gly Ser Trp Leu Gly Gly Phe Ile His Ser Ile Ile Gln Ile Ile Ile				
145	150	155	160	
Thr Ile Pro Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Tyr Phe				
	165	170	175	
Cys Asp Leu Gln Gln Leu Phe Lys Leu Ala Cys Thr Asp Thr Phe Met				
	180	185	190	
Glu Gly Phe Ile Val Met Ala Asn Ser Gly Leu Ile Ser Ile Val Ser				
	195	200	205	
Leu Phe Ile Leu Val Ser Ser Tyr Ala Val Ile Leu Ile Ser Leu Arg				
	210	215	220	



Lys Arg Ser Ala Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Ala Ser  
 225 230 235 240  
 His Ile Thr Val Val Ile Leu Phe Phe Val Pro Gly Ala Phe Ile Tyr  
 245 250 255  
 Met Arg Pro Ser Ser Thr Phe Thr Glu Asp Lys Leu Val Ser Val Phe  
 260 265 270  
 Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Ile Val Tyr Thr Leu Arg  
 275 280 285  
 Asn Thr Glu Met Lys Asn Ala Ile Arg Met Ser Trp Lys Gln Lys Asp  
 290 295 300  
 Ser  
 305

<210> 1442  
 <211> 306  
 <212> PRT  
 <213> Mus musculus

<400> 1442  
 Met Glu Pro Arg Asn Asn Val Thr Tyr Phe Val Leu Leu Gly Leu Ser  
 1 5 10 15  
 Glu Asn Pro Lys Val Gln Lys Gly Leu Phe Val Leu Phe Leu Leu Ser  
 20 25 30  
 Tyr Val Leu Thr Met Val Gly Asn Leu Leu Ile Val Met Thr Val Thr  
 35 40 45  
 Thr Ser Asn Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Ser Leu  
 50 55 60  
 Ser Phe Val Asp Ile Ile Tyr Ser Ser Ala Ile Ser Pro Lys Leu Ile  
 65 70 75 80  
 Ser Asp Leu Phe Phe Gly Gln Asn Thr Ile Ser Phe Lys Phe Cys Met  
 85 90 95  
 Thr Gln Leu Phe Thr Glu His Phe Phe Gly Gly Ser Glu Val Phe Leu  
 100 105 110  
 Leu Leu Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu  
 115 120 125  
 His Tyr Ser Thr Ile Met Lys Gln Trp Val Cys Val Val Leu Leu Ile  
 130 135 140  
 Leu Ser Trp Ile Gly Gly Phe Leu His Ser Val Ile Gln Leu Ser Thr  
 145 150 155 160  
 Ile Tyr Gly Leu Pro Phe Cys Gly Pro Asn Ile Ile Asp His Phe Met  
 165 170 175  
 Cys Asp Met Tyr Pro Leu Leu Lys Leu Val Cys Ile Asp Thr Tyr Val  
 180 185 190  
 Ile Gly Leu Leu Val Met Ala Asn Gly Gly Leu Ile Cys Thr Val Val  
 195 200 205  
 Phe Ile Leu Leu Leu Ile Ser Tyr Gly Val Ile Leu Tyr Ser Leu Lys  
 210 215 220  
 Asn Leu Asn Gln Glu Gly Arg Trp Lys Ala Leu Ser Thr Cys Gly Ser  
 225 230 235 240  
 His Ile Thr Val Val Val Ser Phe Phe Val Pro Cys Ile Phe Met Tyr  
 245 250 255  
 Ala Arg Pro Ala Lys Thr Phe Pro Ile Asp Lys Met Leu Ser Val Phe  
 260 265 270  
 Tyr Thr Val Ile Thr Pro Met Met Asn Pro Leu Ile Tyr Thr Leu Arg  
 275 280 285  
 Asn Ser Glu Met Thr Asn Ala Met Lys Lys Leu Trp Arg Arg Lys Ile

290  
Ile Ser  
305

295

300

<210> 1443  
<211> 309  
<212> PRT  
<213> Mus musculus

<400> 1443  
Met Glu Asn Gln Asn Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr  
1 5 10 15  
Glu Asn Pro Lys Met Gln Lys Ile Val Phe Ile Met Phe Phe Leu Ile  
20 25 30  
Tyr Ile Ile Ser Ile Thr Gly Asn Val Leu Ile Val Val Thr Ile Thr  
35 40 45  
Ser Thr Ser Leu Leu Glu Ser Pro Met Tyr Phe Phe Leu Ala Tyr Leu  
50 55 60  
Ser Phe Ile Asp Ala Cys Tyr Ser Ser Val Ser Thr Pro Lys Leu Ile  
65 70 75 80  
Ala Asp Ser Leu Cys Glu Lys Lys Thr Ile Pro Phe Asn Gly Cys Met  
85 90 95  
Thr Gln Ile Phe Gly Glu His Leu Phe Gly Gly Ala Glu Ile Ile Leu  
100 105 110  
Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu  
115 120 125  
His Tyr Ala Thr Ile Met Ser Arg Arg Leu Cys Ser Leu Leu Val Gly  
130 135 140  
Val Ser Trp Leu Gly Gly Phe Leu His Ala Thr Ile Gln Ile Leu Phe  
145 150 155 160  
Ile Phe Gln Leu Pro Phe Cys Gly Pro Asn Ile Ile Asp His Phe Met  
165 170 175  
Cys Asp Leu Asn Pro Leu Leu Asn Leu Val Cys Thr Asp Thr His Thr  
180 185 190  
Leu Gly Ile Phe Val Ala Ala Asn Ser Gly Phe Ile Cys Leu Leu Asn  
195 200 205  
Phe Leu Leu Leu Leu Val Ser Tyr Val Ala Ile Leu Arg Ser Leu Lys  
210 215 220  
Asn His Ser Ala Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Ile Ser  
225 230 235 240  
His Ile Thr Val Val Val Leu Phe Phe Val Pro Cys Ile Phe Val Tyr  
245 250 255  
Met Arg Pro Val Ala Thr Leu Pro Ile Asp Lys Ala Val Ala Met Phe  
260 265 270  
Tyr Thr Met Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg  
275 280 285  
Asn Ala Gln Met Lys Asp Ala Ile Lys Lys Leu Gly Ser Thr Lys Ile  
290 295 300  
Leu Ser Ser Asn Lys  
305

<210> 1444  
<211> 310  
<212> PRT  
<213> Mus musculus

<400> 1444

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Met Lys Gln Ile Asn Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr
 1          5          10          15
Gln Asn Pro Asp Val Gln Lys Leu Leu Leu Val Ile Phe Ala Leu Ile
 20          25          30
Tyr Ser Leu Thr Leu Ile Gly Asn Leu Leu Ile Ile Val Thr Val Ile
 35          40          45
Ser Ser Pro Thr Leu Gly Ser Pro Met Tyr Phe Phe Leu Ser Phe Leu
 50          55          60
Ser Phe Val Asp Gly Cys Cys Ser Ser Thr Met Ala Pro Lys Met Ile
 65          70          75          80
Phe Asp Leu Leu Ala Glu Arg Lys Thr Ile Ser Phe Asn Gly Cys Met
 85          90          95
Thr Gln Ile Phe Ala Glu His Phe Phe Gly Gly Val Glu Ile Ile Leu
 100          105          110
Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
 115          120          125
His Tyr Met Ile Thr Met Asn Arg Arg Val Cys Gly Phe Leu Val Ser
 130          135          140
Thr Ala Trp Ala Gly Gly Phe Leu His Ala Leu Ile Gln Ile Leu Phe
 145          150          155          160
Met Val Trp Leu Pro Phe Cys Gly Pro Asn Ile Ile Asp His Phe Ile
 165          170          175
Cys Asp Leu Phe Pro Leu Leu Lys Leu Ser Cys Thr Asp Asn His Ile
 180          185          190
Phe Gly Leu Phe Val Ala Ala Asn Ser Gly Leu Met Cys Met Leu Ile
 195          200          205
Phe Ser Ile Leu Leu Thr Ser Tyr Val Leu Ile Phe Cys Ser Leu Lys
 210          215          220
Thr His Ser Thr Glu Glu Gln Leu Lys Ala Leu Ser Thr Cys Ala Ser
 225          230          235          240
His Ile Thr Val Val Leu Leu Phe Phe Val Pro Cys Ile Phe Val Tyr
 245          250          255
Leu Arg Pro Met Val Ile Phe Pro Phe Asp Lys Ala Val Ala Val Phe
 260          265          270
Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
 275          280          285
Asn Thr Glu Val Lys Asn Ala Met Arg Lys Leu Trp Asn Gln Arg Lys
 290          295          300
Pro Gly Lys Arg Phe Thr
 305          310
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<210> 1445

<211> 308

<212> PRT

<213> Mus musculus

<400> 1445

```
Met Ala Asn Lys Asn Asn Ile Thr Glu Leu Ile Phe Thr Gly Leu Phe
 1          5          10          15
Gln Asp Pro Glu Val Gln Lys Val Cys Phe Val Leu Phe Leu Pro Val
 20          25          30
Tyr Leu Ala Thr Leu Leu Gly Asn Ser Leu Ile Val Val Ala Val Ser
 35          40          45
Ile Ser Lys Thr Leu His Ser Pro Met Tyr Phe Phe Leu Ser Ser Leu
```

50		55		60											
Ser	Leu	Val	Glu	Ile	Cys	Tyr	Ser	Ser	Thr	Ile	Val	Pro	Lys	Phe	Ile
65					70					75					80
Thr	Asp	Leu	Leu	Val	Lys	Val	Lys	Thr	Ile	Ser	Leu	Lys	Gly	Cys	Leu
				85					90					95	
Ala	Gln	Ile	Phe	Phe	Ser	His	Phe	Leu	Gly	Val	Ala	Glu	Ile	Leu	Leu
			100					105					110		
Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Met	Asn	Ile	Met	Ser	Arg	Gln	Val	Cys	His	Met	Leu	Val	Gly
	130					135					140				
Gly	Ser	Trp	Leu	Gly	Gly	Leu	Ile	His	Ser	Ile	Ile	Gln	Ile	Ile	Ile
145					150					155					160
Thr	Ile	Pro	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Tyr	Phe
				165					170						175
Cys	Asp	Leu	Gln	Pro	Leu	Phe	Lys	Leu	Ala	Cys	Thr	Asp	Thr	Phe	Met
		180						185					190		
Glu	Gly	Val	Val	Val	Met	Ala	Asn	Ser	Gly	Leu	Ile	Ser	Ile	Ile	Ser
	195						200					205			
Leu	Phe	Ile	Leu	Val	Ser	Ser	Tyr	Ala	Ile	Ile	Leu	Ile	Ser	Leu	Arg
	210					215					220				
Lys	His	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Ala	Ser
225					230					235					240
His	Ile	Thr	Val	Val	Ile	Leu	Phe	Phe	Gly	Pro	Ala	Thr	Phe	Leu	Tyr
			245						250					255	
Leu	Arg	Pro	Ser	Ser	Ser	Phe	Thr	Glu	Asp	Lys	Leu	Val	Ala	Val	Phe
		260						265					270		
Tyr	Thr	Val	Ile	Thr	Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr	Thr	Leu	Arg
	275					280						285			
Asn	Ala	Glu	Val	Lys	Asn	Ala	Met	Lys	Lys	Leu	Trp	Gly	Lys	Arg	Asn
	290					295					300				
Pro	Glu	Thr	Glu												
305															

<210> 1446  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1446

Met	Ala	Ala	Ala	Ser	Asn	Val	Thr	Glu	Ile	Ile	Phe	Leu	Gly	Leu	Ser
1				5					10					15	
Gln	Tyr	Gln	His	Val	Gln	Lys	Val	Ile	Phe	Val	Met	Phe	Leu	Leu	Met
		20						25					30		
Tyr	Thr	Ala	Ile	Val	Leu	Gly	Asn	Gly	Leu	Ile	Val	Val	Thr	Ile	Val
	35					40						45			
Ala	Ser	Lys	Gly	Leu	Ser	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Tyr	Leu
	50					55				60					
Ser	Phe	Val	Glu	Val	Cys	Tyr	Cys	Ser	Val	Thr	Ala	Pro	Lys	Leu	Ile
65					70					75					80
Phe	Asp	Ser	Leu	Leu	Gln	Arg	Lys	Ala	Ile	Ser	Leu	Gln	Gly	Cys	Ile
			85						90					95	
Thr	Gln	Ile	Phe	Phe	Leu	His	Phe	Phe	Gly	Gly	Thr	Glu	Ile	Phe	Leu
		100					105						110		
Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
	115						120					125			

His	Tyr	Val	Thr	Ile	Met	Asn	Arg	Arg	Val	Cys	Gly	Leu	Leu	Val	Gly	
130						135					140					
Ala	Ala	Trp	Ser	Gly	Gly	Leu	Leu	His	Ser	Ala	Gly	Gln	Thr	Phe	Leu	
145					150					155					160	
Ile	Phe	Gln	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Ile	Ile	Asn	His	Tyr	Phe	
				165					170					175		
Cys	Asp	Val	His	Pro	Val	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr	Phe	Leu	
			180					185					190			
Ile	Ser	Leu	Leu	Val	Ile	Ile	Asn	Gly	Gly	Ser	Ile	Ser	Val	Ile	Ser	
	195						200					205				
Phe	Ala	Val	Leu	Leu	Ala	Ser	Tyr	Val	Val	Ile	Leu	Asn	Ser	Leu	Arg	
	210					215					220					
Ser	His	Thr	Ala	Glu	Gly	Arg	His	Lys	Ala	Leu	Ser	Thr	Cys	Ala	Ser	
225					230					235					240	
His	Leu	Ala	Val	Val	Gly	Leu	Phe	Phe	Ile	Pro	Cys	Ser	Phe	Val	Tyr	
				245					250					255		
Met	Arg	Pro	Cys	Ile	Thr	Phe	Pro	Val	Asp	Lys	Val	Val	Ala	Val	Phe	
			260					265					270			
Tyr	Thr	Val	Val	Thr	Pro	Leu	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Phe	Arg	
		275				280						285				
Asn	Thr	Glu	Val	Lys	Asn	Ala	Met	Lys	Arg	Leu	Val	Gly	Arg	Lys	Val	
	290					295					300					
Thr	Trp	Glu	Glu	Lys												
305																

<210> 1447  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1447

Met	Glu	Ile	Arg	Ser	Asn	Val	Thr	Glu	Phe	Val	Leu	Leu	Gly	Leu	Thr	
1				5					10					15		
Arg	Asn	Pro	Ser	Met	Gln	Lys	Ile	Val	Phe	Ala	Val	Phe	Val	Val	Ile	
			20					25					30			
Tyr	Ile	Ile	Ser	Met	Val	Gly	Asn	Val	Leu	Ile	Val	Val	Thr	Ile	Thr	
	35					40						45				
Ala	Ser	Pro	Ser	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Tyr	Leu	
	50				55					60						
Ser	Phe	Ile	Asp	Ala	Cys	Tyr	Ser	Ser	Val	Asn	Thr	Pro	Lys	Leu	Ile	
65					70				75					80		
Ile	Asp	Ser	Leu	His	Glu	Lys	Lys	Thr	Ile	Leu	Phe	Asn	Gly	Cys	Met	
			85					90					95			
Thr	Gln	Val	Phe	Gly	Glu	His	Phe	Phe	Gly	Gly	Ala	Glu	Gly	Ile	Leu	
			100					105					110			
Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	
		115					120					125				
His	Tyr	Thr	Thr	Ile	Met	Ser	Arg	Arg	Val	Cys	Gly	Leu	Leu	Val	Gly	
	130				135						140					
Val	Val	Trp	Val	Gly	Gly	Phe	Leu	His	Ala	Thr	Ile	Gln	Ile	Leu	Phe	
145					150					155					160	
Ile	Phe	Lys	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Phe	Met	
				165					170					175		
Cys	Asp	Leu	Asn	Pro	Leu	Leu	Asn	Leu	Ala	Cys	Thr	Asp	Thr	His	Ile	
			180					185				190				
Leu	Gly	Leu	Phe	Val	Ala	Ala	Asn	Ser	Gly	Phe	Ile	Cys	Leu	Leu	Asn	

	195		200		205										
Phe	Leu	Leu	Leu	Val	Ser	Tyr	Val	Val	Ile	Leu	Arg	Ser	Leu	Arg	
	210				215					220					
Asn	His	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Val	Ser
225					230					235					240
His	Ile	Thr	Val	Val	Val	Leu	Phe	Phe	Val	Pro	Cys	Ile	Phe	Val	Tyr
				245					250					255	
Met	Arg	Pro	Ser	Ala	Thr	Leu	Ser	Ile	Asp	Lys	Ala	Val	Ala	Val	Phe
			260					265					270		
Tyr	Thr	Met	Ile	Thr	Pro	Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg
	275						280					285			
Asn	Ala	Gln	Met	Lys	Asp	Ala	Ile	Lys	Lys	Leu	Cys	Arg	Trp	Lys	Asp
	290					295					300				
Asp	Val	Ile	Ser	Ile	Asn	Lys									
305					310										

<210> 1448  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1448

Met	Asn	Asp	Thr	Glu	His	Met	Glu	Asn	Lys	Arg	Asn	Val	Thr	Glu	Phe
1				5					10					15	
Ile	Leu	Ile	Gly	Leu	Thr	Gln	Asn	Pro	Gln	Met	Gln	Lys	Val	Val	Phe
			20					25					30		
Val	Thr	Phe	Leu	Leu	Leu	Tyr	Met	Ile	Thr	Ile	Ser	Gly	Asn	Leu	Leu
		35					40					45			
Ile	Val	Val	Thr	Ile	Ile	Asn	Ser	Gln	Ala	Leu	Asn	Ser	Pro	Met	Tyr
	50					55					60				
Phe	Phe	Leu	Ser	His	Leu	Ser	Leu	Ile	Asp	Thr	Ile	Tyr	Thr	Ser	Ser
65				70					75						80
Ser	Ala	Pro	Lys	Leu	Ile	Ala	Asp	Ser	Leu	Gln	Glu	Asn	Lys	Val	Ile
			85					90						95	
Ser	Phe	Asn	Gly	Cys	Met	Ala	Gln	Val	Tyr	Ala	Glu	His	Ile	Phe	Gly
			100					105					110		
Ala	Thr	Glu	Ile	Ile	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val
	115						120					125			
Ala	Ile	Cys	Lys	Pro	Leu	His	Tyr	Met	Thr	Ile	Met	Ser	His	Lys	Leu
	130					135					140				
Cys	Ile	Leu	Leu	Val	Gly	Val	Ala	Trp	Thr	Gly	Gly	Phe	Leu	His	Ala
145				150						155					160
Thr	Ile	Gln	Ile	Leu	Phe	Thr	Val	Trp	Leu	Pro	Phe	Cys	Gly	Pro	Asn
			165					170						175	
Ile	Ile	Asp	His	Phe	Met	Cys	Asp	Leu	Tyr	Pro	Leu	Leu	Glu	Leu	Val
		180						185					190		
Cys	Met	Asp	Thr	His	Thr	Leu	Gly	Leu	Phe	Val	Ala	Ala	Asn	Ser	Gly
	195						200					205			
Phe	Ile	Cys	Leu	Phe	Asn	Phe	Leu	Leu	Leu	Met	Gly	Ser	Tyr	Val	Ile
	210					215					220				
Ile	Leu	Arg	Ser	Leu	Lys	Asn	Tyr	Ser	Leu	Glu	Gly	Arg	Arg	Lys	Ala
225				230						235					240
Leu	Ser	Thr	Cys	Val	Ser	His	Ile	Thr	Val	Val	Val	Leu	Ser	Phe	Ile
			245						250					255	
Pro	Cys	Ile	Phe	Val	Tyr	Leu	Arg	Pro	Val	Thr	Thr	Leu	Pro	Ile	Asp
		260						265					270		

Lys Ala Val Ala Val Phe Tyr Thr Leu Val Ala Pro Leu Leu Asn Pro  
           275                                  280                                  285  
 Leu Ile Tyr Thr Leu Arg Asn Ser Glu Val Lys Asn Ala Ile Lys Lys  
           290                                  295                                  300  
 Leu Trp Arg Lys Lys Ile  
 305                                  310

<210> 1449  
 <211> 301  
 <212> PRT  
 <213> Mus musculus

<400> 1449  
 Met Asn Asn Ile Thr Glu Phe Ile Leu Val Gly Leu Thr Gln Asn Met  
   1                                  5                                  10                                  15  
 Glu Leu Gln Ile Phe Ser Phe Val Val Phe Phe Ile Val Tyr Leu Leu  
                                   20                                  25                                  30  
 Thr Leu Ala Gly Asn Leu Leu Ile Met Val Thr Ile Ser Ser Ser Lys  
                                   35                                  40                                  45  
 Ala Leu Gly Ser Pro Met Tyr Phe Phe Leu Ser Phe Leu Ser Leu Ile  
   50                                  55                                  60  
 Asp Gly Cys Cys Ser Ser Ser Met Thr Pro Lys Met Leu Ala Asp Ser  
 65                                  70                                  75                                  80  
 Leu Ser Val Arg Lys Thr Ile Ser Phe Ser Gly Cys Met Thr Gln Val  
                                   85                                  90                                  95  
 Phe Ala Glu His Phe Phe Gly Ala Ala Glu Ile Ile Leu Leu Thr Val  
                                   100                                  105                                  110  
 Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu Arg Tyr Thr  
   115                                  120                                  125  
 Ile Ile Met Asn Arg Phe Val Cys Gly Leu Leu Val Gly Val Ala Trp  
   130                                  135                                  140  
 Ala Gly Gly Phe Ile His Ala Thr Ile Gln Ile Leu Phe Thr Val Trp  
 145                                  150                                  155                                  160  
 Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Met Cys Asp Leu  
                                   165                                  170                                  175  
 Thr Pro Leu Leu Lys Leu Val Cys Met Asp Thr His Asn Leu Gly Leu  
                                   180                                  185                                  190  
 Phe Val Ala Ala Asn Ser Gly Phe Ile Cys Leu Leu Asn Phe Leu Leu  
   195                                  200                                  205  
 Leu Met Ile Ser Tyr Ile Val Ile Leu Asp Ala Leu Lys Ser His Ser  
   210                                  215                                  220  
 Lys Glu Gly Arg Cys Lys Ala Leu Ser Thr Cys Val Ser His Ile Thr  
 225                                  230                                  235                                  240  
 Val Val Ile Leu Phe Phe Val Pro Cys Ile Phe Val Tyr Leu Arg Pro  
                                   245                                  250                                  255  
 Val Ile Thr Phe Ser Ile Asp Lys Ala Val Ala Val Phe Tyr Thr Met  
                                   260                                  265                                  270  
 Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Thr Glu  
   275                                  280                                  285  
 Val Lys Asn Ala Met Lys Lys Leu Cys Ile Lys Val Asp  
   290                                  295                                  300

<210> 1450  
 <211> 307  
 <212> PRT

<213> Mus musculus

<400> 1450

```
Met Ala Ser Val Asn Val Thr Glu Leu Ile Ile Thr Gly Leu Phe Gln
 1          5          10          15
Asp Pro Asp Val Gln Lys Val Cys Phe Val Leu Phe Leu Pro Val Tyr
 20          25          30
Leu Ala Thr Val Leu Gly Asn Gly Leu Ile Val Val Thr Ile Ser Val
 35          40          45
Ser Lys Ser Leu Asn Ser Pro Met Tyr Ile Phe Leu Ser Ser Leu Ser
 50          55          60
Ile Val Glu Ile Cys Tyr Ser Ser Thr Val Val Pro Lys Phe Ile Thr
 65          70          75          80
Asp Leu Leu Ala Lys Val Lys Thr Ile Ser Leu Lys Gly Cys Leu Thr
 85          90          95
Gln Ile Phe Phe Phe His Phe Leu Gly Val Ala Glu Ile Leu Leu Leu
100          105          110
Val Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu His
115          120          125
Tyr Met Asn Ile Met Ser Arg Gln Val Cys His Met Leu Val Gly Gly
130          135          140
Ser Trp Leu Gly Gly Leu Ile His Ser Ile Ile Gln Ile Val Ile Thr
145          150          155          160
Ile Pro Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Tyr Phe Cys
165          170          175
Asp Leu Gln Pro Leu Phe Lys Leu Ala Cys Thr Asp Thr Phe Met Glu
180          185          190
Gly Val Val Val Met Ala Asn Ser Gly Leu Ile Ser Ile Ile Ser Leu
195          200          205
Phe Ile Leu Val Ser Ser Tyr Ala Ile Ile Leu Ile Ser Leu Arg Lys
210          215          220
His Ser Ala Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Ala Ser His
225          230          235          240
Ile Thr Val Val Ile Leu Phe Phe Gly Pro Ala Thr Phe Leu Tyr Leu
245          250          255
Arg Pro Ser Ser Ser Phe Thr Glu Asp Lys Leu Val Ala Val Phe Tyr
260          265          270
Thr Val Ile Thr Pro Met Leu Asn Pro Ile Ile Tyr Thr Leu Arg Asn
275          280          285
Ala Glu Val Lys Asn Ala Met Lys Lys Leu Trp Gly Lys Arg Asn Pro
290          295          300
Glu Thr Glu
305
```

<210> 1451

<211> 304

<212> PRT

<213> Mus musculus

<400> 1451

```
Met Ser Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr Gln Asp Pro
 1          5          10          15
Asp Leu Gln Lys Leu Leu Phe Ile Val Cys Leu Ile Ile Tyr Leu Ile
 20          25          30
Thr Leu Ala Gly Asn Met Leu Ile Ser Val Thr Ile Phe Ile Ser Pro
 35          40          45
```



Ala	Leu	Ala	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Tyr	Leu	Ser	Ile	Ile
50						55					60				
Asp	Gly	Phe	Tyr	Ser	Ser	Ser	Ile	Thr	Pro	Lys	Met	Ile	Tyr	Asp	Leu
65				70						75					80
Ile	Ser	Glu	Lys	Ser	Thr	Ile	Ser	Phe	Asn	Gly	Cys	Met	Thr	Gln	Leu
				85					90					95	
Phe	Ala	Glu	His	Phe	Phe	Ala	Ala	Ala	Glu	Ile	Ile	Leu	Leu	Ile	Ser
			100					105					110		
Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	His	Tyr	Met
		115					120					125			
Thr	Ile	Met	Asn	Arg	His	Val	Cys	Ile	Phe	Leu	Val	Val	Ala	Ala	Gly
		130				135					140				
Ile	Val	Gly	Phe	Val	His	Gly	Met	Ile	Gln	Thr	Thr	Phe	Ile	Ala	Gln
145					150					155					160
Leu	Pro	Phe	Cys	Gly	Pro	Asn	Ile	Ile	Asn	His	Phe	Ile	Cys	Asp	Leu
				165					170					175	
Ile	Pro	Leu	Leu	Glu	Leu	Ala	Cys	Thr	Asp	Thr	His	Thr	Leu	Gly	Pro
			180					185					190		
Leu	Ile	Ala	Ala	Asn	Ser	Gly	Ser	Met	Cys	Leu	Leu	Ile	Phe	Ser	Met
		195				200						205			
Leu	Val	Ala	Ser	Tyr	Val	Val	Ile	Leu	Arg	Ser	Leu	Arg	Asn	His	Ser
		210				215					220				
Ala	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Ala	Ser	His	Val	Thr
225					230					235					240
Val	Val	Val	Leu	Phe	Phe	Val	Pro	Cys	Ser	Tyr	Leu	Tyr	Val	Arg	Pro
				245					250					255	
Val	Ile	Ser	Phe	His	Ile	Asp	Lys	Ile	Val	Ser	Val	Phe	Tyr	Thr	Leu
			260					265					270		
Val	Thr	Pro	Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Glu	Glu
		275					280					285			
Val	Lys	Arg	Val	Met	Lys	Lys	Leu	Leu	Gly	Ser	Asn	His	Val	Lys	His
		290				295					300				

<210> 1452  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1452

Met	Glu	Asn	Arg	Asn	Asn	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Gln	Asn	Pro	Glu	Gly	Gln	Lys	Val	Leu	Phe	Val	Thr	Phe	Leu	Leu	Ile
		20						25					30		
Tyr	Ile	Val	Thr	Val	Met	Gly	Asn	Leu	Leu	Ile	Met	Val	Thr	Ile	Met
		35				40						45			
Ala	Ser	Gln	Ser	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Tyr	Leu
		50				55					60				
Ser	Phe	Ile	Asp	Thr	Val	Tyr	Ser	Thr	Ser	Ile	Ala	Pro	Lys	Met	Ile
65					70					75					80
Ile	Asp	Leu	Leu	Tyr	Glu	Thr	Lys	Thr	Ile	Ser	Phe	Arg	Ala	Cys	Met
				85					90					95	
Thr	Gln	Val	Phe	Ile	Asp	His	Leu	Phe	Ala	Gly	Ala	Glu	Val	Ile	Leu
			100					105					110		
Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Leu	Thr	Ile	Met	Asn	Arg	Arg	Val	Cys	Val	Leu	Met	Leu	Leu

130		135		140
Gly Ala Trp Ile Gly	Gly Phe Leu His Ser Leu	Ile Gln Phe Ile Phe		
145	150	155	160	
Ile Tyr Gln Leu Pro	Phe Cys Gly Pro Asn Ile	Ile Asp Ser Phe Val		
	165	170	175	
Cys Asp Met Tyr Pro	Leu Leu Lys Leu Ala Cys	Thr Asn Thr Tyr Leu		
	180	185	190	
Ile Gly Leu Cys Met	Ile Ala Asn Gly Gly Ala	Ile Cys Thr Val Thr		
	195	200	205	
Phe Leu Ile Leu Leu	Val Ser Tyr Gly Val Ile	Leu His Ser Leu Lys		
	210	215	220	
Ala His Ser Leu Glu	Gly Lys Arg Lys Ala Leu	Tyr Thr Cys Ala Ser		
225	230	235	240	
His Ile Thr Val Val	Val Leu Phe Phe Val Pro	Cys Ile Phe Leu Tyr		
	245	250	255	
Ala Arg Pro Thr Ser	Thr Phe Pro Ile Asp Lys	Ser Val Thr Val Val		
	260	265	270	
Leu Thr Phe Ile Thr	Pro Met Leu Asn Pro Leu	Ile Tyr Thr Leu Arg		
	275	280	285	
Asn Ala Glu Met Lys	Asn Ala Met Lys Arg Leu	Trp Ser Lys Lys Ser		
	290	295	300	
Ser Ser Ile Val Ser	Gly Leu Tyr His Ser			
305	310			

<210> 1453  
 <211> 305  
 <212> PRT  
 <213> Mus musculus

<400> 1453

Met Asn Val Thr Glu Phe Ile Leu Met Gly Leu Thr Gln Asn Pro Gln	
1 5 10 15	
Leu Gln Arg Ile Leu Leu Leu Met Leu Leu Ile Ile Tyr Ile Val Thr	
20 25 30	
Val Thr Gly Asn Leu Leu Ile Val Gly Thr Ile Val Cys Ser Gln Thr	
35 40 45	
Leu Asn Ser Pro Met Tyr Phe Phe Leu Ala Phe Leu Ser Leu Ile Asp	
50 55 60	
Ala Cys Tyr Ser Ser Ser Ile Ile Pro Lys Met Leu Ala Asp Leu Met	
65 70 75 80	
Ser Glu Arg Lys Thr Ile Ser Phe His Gly Cys Met Ile Gln Leu Phe	
85 90 95	
Val Glu His Phe Leu Gly Ala Ser Glu Ile Val Leu Leu Val Val Met	
100 105 110	
Ala Tyr Asp Arg Tyr Val Ala Ile Cys Arg Pro Leu His Tyr Val Thr	
115 120 125	
Arg Met Asn His His Asn Cys Cys Val Leu Val Gly Val Cys Trp Ile	
130 135 140	
Met Gly Phe Leu His Ser Phe Gly Gln Ile Leu Val Thr Leu Trp Ile	
145 150 155 160	
Pro Phe Cys Gly Pro Asn Val Met Asp His Phe Cys Cys Asp Ile Phe	
165 170 175	
Pro Leu Leu Gln Leu Ala Cys Ala Asp Thr Phe Leu Leu Gly Leu Leu	
180 185 190	
Ile Ala Ala Asn Gly Gly Val Ile Pro Val Ile Thr Phe Thr Met Leu	
195 200 205	

Leu Met Ser Tyr Ala Val Ile Leu Phe Ser Leu Arg Thr His Ser Thr  
 210 215 220  
 Ala Gly Arg Lys Lys Ala Leu Ser Thr Cys Ser Ser His Ile Thr Val  
 225 230 235 240  
 Val Val Leu Phe Phe Val Pro Cys Ile Tyr Thr Tyr Met Arg Pro Val  
 245 250 255  
 Thr Thr Phe His Thr Asp Lys Ala Ile Ala Val Phe Tyr Thr Leu Val  
 260 265 270  
 Thr Pro Met Leu Asn Pro Ile Ile Tyr Thr Val Arg Asn Ala Glu Val  
 275 280 285  
 Lys Asn Ala Ile Arg Met Ile Leu Lys Lys Asn Ser Ile Leu Asp Asn  
 290 295 300  
 Lys  
 305

<210> 1454  
 <211> 323  
 <212> PRT  
 <213> Mus musculus

<400> 1454  
 Met Asn Arg Phe Tyr Phe Asn Ile Ser Leu Lys Thr Met Gln Asn Gln  
 1 5 10 15  
 Ser Phe Val Thr Glu Phe Ile Leu Leu Gly Leu Ser Gln Asn Pro Asn  
 20 25 30  
 Val Glu Asn Ile Leu Cys Val Val Phe Leu Phe Ile Tyr Leu Ala Thr  
 35 40 45  
 Ile Gly Gly Asn Ile Met Ile Val Val Thr Ile Ile Tyr Ser Pro Ala  
 50 55 60  
 Leu Leu Ser Ser Pro Met Tyr Phe Phe Leu Ile Phe Leu Ser Leu Leu  
 65 70 75 80  
 Asp Ala Cys Thr Ser Ser Thr Val Thr Pro Lys Met Met Val Asp Leu  
 85 90 95  
 Phe Tyr Glu Arg Lys Thr Ile Ser Phe Glu Cys Cys Met Thr Gln Leu  
 100 105 110  
 Phe Ala Ile His Phe Phe Thr Gly Ile Glu Val Ile Ile Leu Ser Ala  
 115 120 125  
 Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu His Tyr Ser  
 130 135 140  
 Ser Ile Met Thr Arg Arg Leu Cys Gly Ile Leu Val Met Val Ser Trp  
 145 150 155 160  
 Thr Gly Gly Phe Leu His Ser Leu Ile Gln Ile Ile Phe Thr Leu Gln  
 165 170 175  
 Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Tyr Leu Cys Asp Leu  
 180 185 190  
 Phe Pro Leu Leu Lys Leu Ala Cys Thr Asp Thr His Ile Phe Val Ile  
 195 200 205  
 Leu Val Phe Ser Asn Ser Gly Ser Ile Ser Ile Ile Ile Phe Ser Ile  
 210 215 220  
 Leu Leu Val Ser Tyr Gly Val Ile Leu Phe Ser Leu Arg Ala His Ser  
 225 230 235 240  
 Ser Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Gly Ser His Ile Thr  
 245 250 255  
 Val Val Leu Leu Phe Phe Val Pro Cys Phe Leu Ile Tyr Ala Arg Pro  
 260 265 270  
 Pro Ser Ala Phe Ser Ser Glu Lys Asn Ala Phe Val Phe Ala Thr Ile



<210> 1456  
 <211> 305  
 <212> PRT  
 <213> Mus musculus

<400> 1456  
 Met Gly Gln Ser Tyr Asn Val Thr Glu Phe Ile Phe Val Asp Leu Thr  
 1 5 10 15  
 Gln Asp Pro Ala Gly Lys Lys Ala Leu Phe Val Leu Phe Ser Leu Thr  
 20 25 30  
 Tyr Ile Val Thr Met Leu Gly Asn Leu Leu Ile Ala Val Thr Val Ile  
 35 40 45  
 Ala Ser Pro Ser Leu Asn Ser Pro Met Tyr Phe Phe Leu Ala Cys Leu  
 50 55 60  
 Ser Val Leu Asp Ala Phe Tyr Cys Asn Thr Ile Ser Pro Asn Leu Ile  
 65 70 75 80  
 Ile Gly Leu Leu Lys Asp Lys Asn Asn Ile Ser Phe Arg Ala Cys Met  
 85 90 95  
 Leu Gln Leu Phe Val Glu His Leu Phe Gly Gly Val Glu Val Phe Leu  
 100 105 110  
 Leu Val Phe Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu  
 115 120 125  
 His Tyr Leu Thr Ile Met Asn Gln Arg Val Cys Ile Leu Leu Leu Leu  
 130 135 140  
 Val Ala Gly Val Gly Gly Ile Leu His Ser Leu Ile Gln Val Leu Thr  
 145 150 155 160  
 Val Tyr Lys Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Met  
 165 170 175  
 Cys Asp Met Asn Pro Leu Leu Gly Leu Ala Cys Thr Asp Thr Tyr Phe  
 180 185 190  
 Leu Gly Ile Thr Val Ile Ala Asn Gly Gly Val Ile Cys Val Gly Ile  
 195 200 205  
 Phe Thr Phe Leu Leu Val Ser Tyr Gly Ile Ile Leu Asn Ser Leu Lys  
 210 215 220  
 Thr His Ser Gln Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Ser Ser  
 225 230 235 240  
 His Ile Met Val Val Val Cys Phe Phe Ala Pro Cys Ile Phe Ile Tyr  
 245 250 255  
 Ala Arg Pro Val Ser Asn Phe Ser Ile Asp Lys Tyr Ile Ala Val Phe  
 260 265 270  
 Tyr Thr Val Val Ser Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg  
 275 280 285  
 Asn Ser Glu Met Lys Asn Ser Ile Lys Lys Leu Trp Cys Lys Thr Leu  
 290 295 300  
 Ala  
 305

<210> 1457  
 <211> 306  
 <212> PRT  
 <213> Mus musculus

<400> 1457  
 Met Gly Gln Asn His Asn Val Thr Glu Phe Ile Phe Val Gly Leu Ser  
 1 5 10 15  
 Gln Asp Pro Ala Gly Gln Lys Val Leu Phe Val Leu Phe Ser Leu Thr











305

310

<210> 1462  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1462  
 Met Met Leu Arg Leu Asn Gln Thr Glu Val Thr Glu Phe Val Leu Glu  
 1 5 10 15  
 Gly Phe Ser Glu His Pro Asp Leu Arg Leu Phe Leu Ile Gly Cys Phe  
 20 25 30  
 Leu Thr Leu Tyr Ile Met Ala Leu Met Gly Asn Ile Leu Ile Ile Ala  
 35 40 45  
 Leu Val Thr Ser Ser Thr Gly Leu His Asn Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Cys Asn Leu Ala Thr Thr Asp Ile Leu Cys Thr Ser Ser Val Ile Pro  
 65 70 75 80  
 Lys Ala Leu Val Gly Leu Val Ser Glu Glu Asn Thr Ile Ser Phe Lys  
 85 90 95  
 Glu Cys Met Ser Gln Leu Phe Phe Leu Ala Trp Ser Ala Ser Ser Glu  
 100 105 110  
 Leu Leu Leu Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys  
 115 120 125  
 Cys Pro Leu His Tyr Ser Ser Arg Met Ser Pro Gln Met Cys Gly Ala  
 130 135 140  
 Leu Ala Met Gly Val Trp Ser Ile Ser Ala Val Asn Ala Ser Val His  
 145 150 155 160  
 Thr Gly Leu Met Thr Arg Leu Ser Phe Cys Gly Pro Lys Val Ile Thr  
 165 170 175  
 His Phe Phe Cys Glu Ile Pro Pro Leu Leu Leu Leu Ser Cys Ser Pro  
 180 185 190  
 Thr Tyr Val Asn Thr Ile Met Thr Leu Leu Gly Asp Ser Phe Phe Gly  
 195 200 205  
 Gly Val Asn Phe Val Leu Thr Leu Leu Ser Tyr Gly Cys Ile Ile Ala  
 210 215 220  
 Ser Ile Leu Arg Met Arg Ser Ala Glu Gly Lys Arg Lys Ala Phe Ser  
 225 230 235 240  
 Thr Cys Ser Ser His Leu Ile Val Val Ser Val Tyr Tyr Ser Ser Val  
 245 250 255  
 Phe Cys Ala Tyr Val Ser Pro Ala Ser Ser Tyr Ser Pro Glu Arg Ser  
 260 265 270  
 Lys Val Thr Ser Val Leu Tyr Ser Ile Val Ser Pro Thr Leu Asn Pro  
 275 280 285  
 Leu Ile Tyr Thr Leu Arg Asn Lys Asp Val Lys Leu Ala Leu Gly Arg  
 290 295 300  
 Ile Leu Ala Ser Phe Ser His  
 305 310

<210> 1463  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1463

Met	Met	Met	Leu	Arg	Leu	Asn	Gln	Thr	Glu	Val	Thr	Glu	Phe	Val	Leu
1				5					10					15	
Glu	Gly	Phe	Ser	Glu	His	Pro	Asp	Leu	Arg	Leu	Phe	Leu	Ile	Gly	Cys
			20					25					30		
Phe	Leu	Ser	Leu	Tyr	Met	Met	Ala	Leu	Met	Gly	Asn	Ile	Val	Ile	Ile
		35					40					45			
Ala	Leu	Val	Thr	Ser	Ser	Thr	Gly	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe
	50					55					60				
Leu	Cys	Asn	Leu	Ala	Thr	Met	Asp	Ile	Val	Cys	Thr	Ser	Ser	Val	Ile
65					70					75					80
Pro	Lys	Ala	Leu	Val	Gly	Leu	Val	Ser	Gly	Glu	Asn	Thr	Ile	Ser	Phe
				85					90					95	
Lys	Gly	Cys	Met	Ala	Gln	Leu	Phe	Phe	Leu	Val	Trp	Ser	Ala	Ser	Ser
			100					105					110		
Glu	Leu	Leu	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Cys	Phe	Pro	Leu	His	Tyr	Ser	Ser	Arg	Met	Ser	Pro	Gln	Leu	Cys	Gly
	130					135					140				
Ala	Leu	Ala	Val	Gly	Val	Trp	Ser	Ile	Cys	Ala	Leu	Asn	Ala	Ser	Val
145					150					155					160
His	Thr	Gly	Leu	Met	Thr	Arg	Leu	Ser	Phe	Cys	Gly	Pro	Lys	Ile	Ile
				165					170					175	
Thr	His	Phe	Phe	Cys	Glu	Ile	Pro	Pro	Leu	Leu	Leu	Leu	Ser	Cys	Ser
			180					185					190		
Pro	Thr	Tyr	Ile	Asn	Ser	Val	Met	Thr	Leu	Val	Ala	Asp	Ala	Phe	Tyr
		195					200					205			
Gly	Gly	Ile	Asn	Phe	Val	Leu	Thr	Leu	Leu	Ser	Tyr	Gly	Tyr	Ile	Ile
	210					215					220				
Gly	Ser	Ile	Leu	Arg	Met	Arg	Ser	Ala	Glu	Gly	Lys	Arg	Lys	Ala	Phe
225					230					235					240
Ser	Thr	Cys	Ser	Ser	His	Leu	Ile	Val	Val	Ser	Val	Tyr	Tyr	Ser	Ser
				245					250					255	
Val	Phe	Cys	Ala	Tyr	Val	Ser	Pro	Ala	Ser	Ser	Tyr	Ser	Pro	Glu	Arg
			260					265					270		
Ser	Lys	Val	Ser	Ser	Val	Leu	Tyr	Ser	Val	Leu	Ser	Pro	Thr	Leu	Asn
		275					280					285			
Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Leu	Ala	Leu	Gly
	290					295					300				
Arg	Ile	Leu	Pro	Ser	Phe	Ser	His								
305					310										

<210> 1464

<211> 319

<212> PRT

<213> Mus musculus

<400> 1464

Met	Val	Asp	Leu	Val	Leu	Ser	Met	Met	Met	Leu	Asn	Leu	Asn	Gln	Thr
1				5					10					15	
Glu	Val	Thr	Glu	Phe	Val	Leu	Glu	Gly	Phe	Ser	Glu	His	Pro	Gly	Leu
			20					25					30		
Arg	Leu	Phe	Leu	Thr	Gly	Cys	Phe	Leu	Ser	Leu	Tyr	Met	Met	Ala	Leu
		35					40					45			
Met	Gly	Asn	Ile	Leu	Ile	Ile	Ala	Leu	Val	Thr	Phe	Ser	Thr	Gly	Leu
	50					55					60				
His	Asn	Pro	Met	Tyr	Phe	Phe	Leu	Cys	Asn	Leu	Ala	Thr	Met	Asp	Ile

65					70					75				80	
Ile	Cys	Thr	Ser	Ser	Val	Ile	Pro	Lys	Ala	Leu	Val	Gly	Leu	Val	Ser
				85					90					95	
Glu	Glu	Asn	Thr	Ile	Ser	Phe	Lys	Gly	Cys	Met	Ser	Gln	Leu	Phe	Phe
			100					105					110		
Leu	Thr	Trp	Ser	Ala	Ser	Ser	Glu	Leu	Leu	Leu	Leu	Thr	Val	Met	Ala
		115					120					125			
Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe	Pro	Leu	His	Tyr	Ser	Ser	Arg
	130					135					140				
Met	Ser	Pro	Gln	Leu	Cys	Gly	Ala	Leu	Ala	Met	Val	Val	Trp	Phe	Ile
145				150						155					160
Gly	Leu	Val	Asn	Ala	Cys	Val	His	Thr	Gly	Leu	Met	Thr	Arg	Leu	Ser
			165						170					175	
Phe	Cys	Gly	Pro	Lys	Val	Ile	Thr	His	Phe	Phe	Cys	Glu	Ile	Pro	Pro
			180					185					190		
Leu	Leu	Leu	Leu	Ser	Cys	Ser	Pro	Thr	Tyr	Val	Asn	Ser	Ile	Leu	Thr
		195					200					205			
Leu	Val	Ala	Asp	Ala	Phe	Phe	Val	Gly	Ile	Asn	Phe	Met	Leu	Thr	Leu
	210					215					220				
Leu	Ser	Tyr	Gly	Cys	Ile	Ile	Ala	Ser	Ile	Leu	Arg	Met	Arg	Ser	Ala
225				230					235						240
Glu	Gly	Lys	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Ile	Val
			245						250					255	
Val	Ser	Val	Tyr	Tyr	Ser	Ser	Met	Phe	Cys	Ala	Tyr	Ile	Ser	Pro	Ala
		260						265					270		
Ser	Ser	Tyr	Ser	Pro	Glu	Arg	Ser	Lys	Val	Thr	Ser	Val	Leu	Tyr	Ser
		275					280					285			
Ile	Leu	Ser	Pro	Thr	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys
	290				295						300				
Asp	Val	Lys	Leu	Ala	Leu	Gly	Arg	Ile	Leu	Ala	Ser	Phe	Ser	His	
305				310						315					

<210> 1465  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1465

Met	Met	Leu	Leu	Ser	Leu	Asn	Gln	Thr	Gly	Val	Thr	Glu	Phe	Val	Leu
1				5					10					15	
Glu	Gly	Phe	Ser	Glu	His	Pro	Gly	Leu	Arg	Leu	Phe	Leu	Thr	Gly	Cys
			20				25					30			
Phe	Leu	Thr	Leu	Tyr	Met	Met	Ala	Leu	Met	Gly	Asn	Ile	Val	Ile	Ile
	35					40					45				
Ala	Leu	Val	Thr	Ser	Ser	Thr	Gly	Leu	His	Asn	Pro	Met	Tyr	Phe	Phe
	50					55					60				
Leu	Cys	Asn	Leu	Ala	Thr	Thr	Asp	Ile	Val	Cys	Thr	Ser	Ser	Val	Ile
65				70					75					80	
Pro	Lys	Ala	Leu	Ile	Gly	Leu	Val	Ser	Glu	Glu	Asn	Ile	Ile	Thr	Phe
			85						90					95	
Lys	Gly	Cys	Met	Ala	Gln	Leu	Phe	Phe	Leu	Ala	Trp	Ala	Thr	Ser	Ala
			100				105						110		
Glu	Leu	Leu	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile
	115					120						125			
Cys	Phe	Pro	Leu	His	Tyr	Ser	Ser	Arg	Met	Ser	Pro	Gln	Leu	Cys	Gly
	130					135					140				

Ala	Leu	Ala	Val	Gly	Val	Trp	Ser	Ile	Ser	Ala	Val	Asn	Ala	Ser	Val
145					150					155					160
His	Thr	Gly	Leu	Met	Thr	Arg	Leu	Ser	Phe	Cys	Gly	Pro	Lys	Val	Ile
				165					170						175
Thr	His	Phe	Phe	Cys	Glu	Ile	Pro	Pro	Leu	Leu	Leu	Leu	Ser	Cys	Ser
			180					185						190	
Ser	Thr	Tyr	Ile	Asn	Ser	Val	Met	Thr	Leu	Val	Ala	Asp	Val	Phe	Leu
		195					200					205			
Gly	Gly	Ile	Asn	Phe	Met	Leu	Thr	Leu	Leu	Ser	Tyr	Gly	Phe	Ile	Ile
	210					215					220				
Ala	Ser	Ile	Leu	Arg	Met	Arg	Ser	Ala	Glu	Gly	Lys	Arg	Lys	Ala	Phe
225					230					235					240
Ser	Thr	Cys	Ser	Ser	His	Leu	Ile	Val	Val	Ser	Val	Tyr	Tyr	Ser	Ser
				245					250						255
Val	Phe	Cys	Ala	Tyr	Ile	Ser	Pro	Ala	Ser	Ser	Tyr	Ser	Pro	Glu	Arg
			260					265					270		
Ser	Lys	Phe	Thr	Ser	Val	Leu	Tyr	Ser	Val	Val	Ser	Pro	Thr	Leu	Asn
		275					280					285			
Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Leu	Ala	Leu	Gly
	290					295					300				
Arg	Met	Leu	Ala	Ser	Phe	Ser	His								
305						310									

<210> 1466

<211> 319

<212> PRT

<213> Mus musculus

<400> 1466

Met	Val	Leu	Ser	Asn	Ile	Thr	His	Phe	Ser	Pro	Met	Phe	Tyr	Leu	Ser
1				5					10					15	
Gly	Phe	Pro	Gly	Leu	Glu	Ala	Ile	Glu	His	Trp	Ile	Phe	Ile	Pro	Phe
			20					25					30		
Phe	Leu	Met	Tyr	Leu	Val	Ala	Ile	Ser	Gly	Asn	Cys	Leu	Ile	Leu	Ile
		35					40					45			
Ile	Ile	Lys	Thr	Ser	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Tyr	Leu	Leu
	50					55					60				
Ser	Leu	Leu	Ala	Leu	Thr	Asp	Leu	Gly	Leu	Ser	Val	Ser	Thr	Leu	Pro
65					70					75					80
Thr	Met	Val	Gly	Ile	Phe	Trp	Phe	Asn	Tyr	His	Gly	Ile	Tyr	Phe	Gly
			85					90						95	
Ala	Cys	Gln	Ile	Gln	Met	Phe	Cys	Ile	His	Ser	Phe	Ser	Phe	Met	Glu
			100					105					110		
Ser	Ala	Val	Leu	Leu	Val	Met	Ser	Phe	Asp	Arg	Phe	Val	Ala	Ile	Cys
		115					120					125			
His	Pro	Leu	Arg	Tyr	Ser	Ser	Ile	Ile	Thr	Val	Gln	Arg	Val	Met	Arg
	130					135					140				
Ala	Gly	Leu	Cys	Val	Ile	Leu	Arg	Gly	Pro	Val	Ala	Leu	Ile	Pro	Ile
145					150					155					160
Val	Leu	Leu	Leu	Lys	Asp	Phe	Pro	Tyr	Cys	Gly	Pro	Leu	Val	Leu	Ser
				165					170					175	
His	Ser	Phe	Cys	Leu	His	Gln	Glu	Val	Ile	His	Leu	Ala	Cys	Val	Asp
			180					185					190		
Thr	Thr	Phe	Asn	Asn	Leu	Tyr	Gly	Leu	Ser	Leu	Val	Val	Phe	Thr	Val
		195					200					205			
Met	Leu	Asp	Leu	Val	Leu	Ile	Ala	Leu	Ser	Tyr	Gly	Phe	Ile	Leu	Tyr

210		215		220
Thr Val Ala Gly Leu Ala Ser Gln Glu Glu Gln Ile Arg Ala Phe Gln				
225		230		235
Thr Cys Thr Ser His Leu Cys Ala Val Leu Val Phe Phe Val Pro Met				240
	245		250	255
Met Gly Leu Ser Leu Val His Arg Phe Gly Lys His Ala Pro Pro Ala				
	260		265	270
Val His Leu Leu Met Ala Asn Ile Tyr Leu Phe Val Pro Pro Met Leu				
	275		280	285
Asn Pro Val Ile Tyr Ser Ile Lys Thr Lys Glu Ile Arg Lys Ala Ile				
	290		295	300
Ile Arg Phe Leu Gly Phe Arg Lys Val Asn Ser Glu Ser Trp Gly				
305	310		315	

<210> 1467  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1467

Met Met Glu Arg Glu Asn Tyr Thr Phe Asn Ser Asp Phe Ile Leu Leu				
1	5		10	15
Gly Leu Phe Ser Ser Ser Lys Ile Ser Leu Thr Phe Phe Ser Val Ile				
	20		25	30
Phe Phe Ile Phe Ile Met Thr Ile Thr Glu Asn Ala Leu Met Ile Leu				
	35		40	45
Leu Ile His Arg Asp Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu				
	50		55	60
Ser His Leu Ser Phe Met Asp Ile Leu His Ile Ser Asn Ile Val Pro				
65	70		75	80
Lys Met Ile Ala Asp Phe Leu Ser Gly Ser Arg Thr Ile Ser Phe Ala				
	85		90	95
Gly Cys Ala Phe Gln Ile Phe Leu Ser Leu Thr Leu Leu Gly Gly Glu				
	100		105	110
Cys Leu Leu Leu Ala Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys				
	115		120	125
His Pro Leu Arg Tyr Pro Val Leu Met Arg Asp Asn Phe Ser Arg Leu				
	130		135	140
Leu Ala Ala Gly Ser Trp Leu Val Gly Ile Leu Asn Ser Ile Val His				
145	150		155	160
Thr Ala Phe Val Leu His Phe Pro Phe Cys His Ser Arg Ala Ile Asp				
	165		170	175
His Phe Phe Cys Glu Val Pro Ala Met Leu Lys Leu Ser Cys Ile Asp				
	180		185	190
Thr Thr His Tyr Glu Arg Gly Val Tyr Val Ser Gly Ile Ile Phe Leu				
	195		200	205
Leu Ile Pro Phe Ser Met Ile Ser Ile Ser Tyr Val Gln Ile Leu Leu				
	210		215	220
Thr Val Phe Gln Met His Ser Ser Gly Ala Arg Gln Lys Ser Phe Ser				
225	230		235	240
Thr Cys Leu Phe His Met Val Val Val Ile Met Tyr Tyr Gly Pro Phe				
	245		250	255
Ile Phe Thr Tyr Met Arg Pro Arg Ser Tyr His Thr Pro Gly Gln Asp				
	260		265	270
Lys Phe Leu Ala Ile Phe Tyr Thr Ile Leu Thr Pro Thr Leu Asn Pro				
	275		280	285

Ile Ile Tyr Ser Phe Arg Asn Lys Asp Val Leu Met Ala Leu Lys Asn  
 290 295 300  
 Ile Val Gln Ser Asn Ile Leu Asn Lys Glu  
 305 310

<210> 1468  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1468  
 Met Met Glu Tyr Glu Asn Tyr Thr Phe Asn Asp Phe Ile Leu Leu Gly  
 1 5 10 15  
 Leu Phe Ser Ser Ser Lys Thr Ser Leu Thr Phe Phe Ser Val Ile Phe  
 20 25 30  
 Phe Ile Phe Ile Met Ala Ile Thr Glu Asn Ala Leu Met Ile Leu Leu  
 35 40 45  
 Ile His Arg Asp Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu Ser  
 50 55 60  
 His Leu Ser Phe Met Asp Ile Leu His Ile Ser Asn Ile Val Pro Lys  
 65 70 75 80  
 Met Ile Ala Asp Phe Leu Ser Gly Ser Arg Thr Ile Ser Phe Ala Gly  
 85 90 95  
 Cys Ala Phe Gln Ile Phe Leu Ser Leu Thr Leu Leu Gly Gly Glu Cys  
 100 105 110  
 Leu Leu Leu Ala Ala Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys His  
 115 120 125  
 Pro Leu Cys Tyr Pro Val Leu Met Arg Asp Asn Phe Ser Arg Leu Leu  
 130 135 140  
 Ala Ala Gly Ser Trp Leu Val Gly Ile Leu Asn Ser Ile Val His Thr  
 145 150 155 160  
 Ala Phe Val Leu His Phe Pro Phe Cys His Ser Arg Ala Ile Asp His  
 165 170 175  
 Phe Phe Cys Glu Val Pro Ala Met Leu Lys Leu Ser Cys Ile Asp Thr  
 180 185 190  
 Thr His Tyr Glu Gln Gly Val Tyr Val Ser Gly Ile Ile Phe Leu Met  
 195 200 205  
 Val Pro Phe Ser Met Ile Ser Ile Ser Tyr Val Gln Ile Leu Leu Thr  
 210 215 220  
 Val Phe Gln Met His Ser Ser Gly Ala Arg Gln Lys Ser Phe Ser Thr  
 225 230 235 240  
 Cys Leu Phe His Met Val Val Val Ile Met Tyr Tyr Gly Pro Val Ile  
 245 250 255  
 Phe Thr Tyr Met Arg Pro Arg Ser Tyr His Thr Pro Gly Gln Asp Lys  
 260 265 270  
 Phe Leu Ala Ile Phe Tyr Thr Ile Leu Thr Pro Lys Leu Asn Pro Ile  
 275 280 285  
 Ile Tyr Ser Phe Arg Asn Lys Asp Val Leu Arg Ala Leu Lys Asn Ile  
 290 295 300  
 Val Gln Ser Asn Ile Leu Asn Lys Lys  
 305 310

<210> 1469  
 <211> 309  
 <212> PRT

<213> Mus musculus

<400> 1469

```
Met Glu Ile Asn Asn Tyr Thr Thr Val Val Glu Phe Val Leu Gln Gly
 1          5          10          15
Leu Ser Glu Asp Pro Gly Leu Gln Ala Leu Phe Leu Ala Phe Phe Leu
 20          25          30
Leu Leu Tyr Ile Leu Ala Leu Ala Gly Asn Thr Leu Ile Ile Ala
 35          40          45
Ile Ser Leu Asn Ser Ser Leu His Thr Pro Met Tyr Phe Phe Leu Ala
 50          55          60
Asn Leu Ala Leu Leu Asp Ile Val Cys Thr Ser Thr Val Leu Pro Lys
 65          70          75          80
Leu Leu Glu Gly Leu Val Gly Lys Ser Ser His Ile Ser Tyr Lys Gly
 85          90          95
Cys Met Thr Gln Leu Phe Phe Leu Thr Trp Phe Leu Gly Ala Glu Leu
100          105          110
Leu Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Arg
115          120          125
Pro Leu His Tyr Ser Met Leu Met Ser Trp Pro Ile Cys Val Leu Leu
130          135          140
Ala Gly Ser Val Trp Val Ile Ser Ala Ala Ser Thr Ser Val His Thr
145          150          155          160
Gly Leu Met Ala Arg Leu Asn Phe Cys Gly Pro Asn Gln Ile Arg His
165          170          175
Phe Leu Cys Glu Val Pro Thr Leu Leu Leu Ser Cys Ser Pro Thr
180          185          190
Thr Leu Asn Asn Ile Met Ile Val Ile Ala Asp Val Tyr Phe Gly Val
195          200          205
Val Asn Phe Leu Leu Thr Met Ile Ser Tyr Ser Phe Ile Ile Thr Ser
210          215          220
Ile Leu Arg Ile Arg Ser Thr Glu Gly Lys Lys Arg Ala Phe Ser Thr
225          230          235          240
Cys Ser Ala His Leu Val Val Val Val Leu Tyr Tyr Ser Thr Val Ile
245          250          255
Tyr Thr Tyr Leu Gln Pro Gly Ser Gly Ser Ser Leu Glu Asn Gly Lys
260          265          270
Val Val Ala Leu Leu Tyr Thr Ala Val Ser Pro Thr Leu Asn Pro Ala
275          280          285
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Val Ala Leu Lys Lys Leu
290          295          300
Phe Pro Cys Phe Gln
305
```

<210> 1470

<211> 311

<212> PRT

<213> Mus musculus

<400> 1470

```
Met Met Ser Arg Leu Asn Gln Thr Val Val Thr Glu Phe Ile Leu Gln
 1          5          10          15
Gly Phe Ser Glu His Pro Ser Leu Arg Leu Phe Leu Thr Gly Cys Phe
 20          25          30
Leu Ser Leu Tyr Val Met Ala Leu Met Gly Asn Ile Leu Ile Ile Ala
 35          40          45
```



Leu	Val	Thr	Phe	Ser	Thr	Gly	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu
50						55					60				
Cys	Asn	Leu	Ala	Thr	Met	Asp	Ile	Ile	Cys	Thr	Ser	Ser	Val	Leu	Pro
65					70					75					80
Lys	Ala	Leu	Val	Gly	Leu	Leu	Ser	Glu	Glu	Asn	Thr	Ile	Ser	Phe	Lys
				85					90					95	
Gly	Cys	Met	Ala	Gln	Leu	Phe	Phe	Leu	Val	Trp	Ser	Leu	Ser	Ser	Glu
			100					105					110		
Leu	Leu	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
			115				120					125			
Phe	Pro	Leu	His	Tyr	Ser	Ser	Arg	Met	Ser	Pro	Gln	Leu	Cys	Gly	Ala
			130				135				140				
Leu	Ala	Met	Gly	Val	Trp	Ser	Ile	Cys	Ala	Leu	Asn	Ala	Ser	Ile	Asn
145					150					155					160
Thr	Gly	Leu	Met	Thr	Arg	Leu	Ser	Phe	Cys	Gly	Pro	Lys	Val	Ile	Thr
				165					170					175	
His	Phe	Phe	Cys	Glu	Ile	Pro	Pro	Leu	Leu	Leu	Leu	Ser	Cys	Ser	Pro
			180					185					190		
Thr	Tyr	Val	Asn	Ser	Ile	Met	Thr	Leu	Ile	Ala	Asp	Val	Phe	Tyr	Gly
			195				200					205			
Gly	Ile	Asn	Phe	Val	Leu	Thr	Leu	Leu	Ser	Tyr	Gly	Cys	Ile	Ile	Ala
						215					220				
Ser	Ile	Leu	Arg	Met	Arg	Ser	Ala	Glu	Gly	Lys	Arg	Lys	Ala	Phe	Ser
225					230					235					240
Thr	Cys	Ser	Ser	His	Leu	Ile	Val	Val	Ser	Val	Tyr	Tyr	Ser	Ser	Val
				245					250					255	
Phe	Cys	Ala	Tyr	Val	Ser	Pro	Ala	Ser	Ser	Tyr	Ser	Pro	Glu	Arg	Ser
				260				265					270		
Lys	Val	Thr	Ser	Val	Leu	Tyr	Ser	Phe	Leu	Ser	Pro	Thr	Leu	Asn	Pro
				275			280					285			
Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Leu	Ala	Ile	Gly	Arg
						295					300				
Leu	Leu	Pro	Ser	Phe	Ser	His									
305						310									

<210> 1471  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1471

Met	Thr	Met	Leu	Ser	Pro	Asn	Gln	Thr	Val	Val	Thr	Glu	Phe	Val	Leu
1				5					10					15	
Glu	Gly	Phe	Ser	Glu	His	Pro	Ser	Leu	Arg	Leu	Phe	Leu	Met	Gly	Cys
			20					25					30		
Phe	Leu	Ser	Leu	Tyr	Thr	Val	Ala	Leu	Met	Gly	Asn	Ile	Leu	Ile	Ile
			35				40					45			
Ala	Leu	Val	Thr	Ser	Ser	Thr	Gly	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe
			50			55					60				
Leu	Cys	Asn	Leu	Ala	Thr	Met	Asp	Ile	Val	Cys	Thr	Ser	Ser	Val	Ile
65					70					75					80
Pro	Lys	Ala	Leu	Ile	Gly	Leu	Val	Phe	Glu	Glu	Asn	Thr	Ile	Ser	Phe
				85					90					95	
Lys	Gly	Cys	Met	Ala	Gln	Leu	Phe	Phe	Leu	Val	Trp	Ser	Ala	Ser	Ser
			100				105					110			
Glu	Leu	Leu	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile



Ala	Met	Ala	Phe	Ala	Ala	Asp	Val	Phe	Leu	Ala	Val	Gly	Asn	Phe	Ser
	195						200					205			
Val	Ile	Ile	Leu	Ser	Tyr	Gly	Phe	Ile	Val	Ala	Ser	Ile	Leu	Lys	Ile
	210					215					220				
Arg	Ser	Ala	Glu	Gly	Lys	Gln	Arg	Ala	Phe	Ser	Thr	Cys	Ser	Ala	His
225					230					235					240
Leu	Ile	Val	Val	Thr	Met	Tyr	Tyr	Ser	Thr	Val	Ile	Tyr	Thr	Tyr	Ile
				245					250					255	
Arg	Pro	Ser	Ser	Ser	Tyr	Ser	Leu	Asn	Lys	Asp	Lys	Val	Val	Ser	Ile
		260						265					270		
Ile	Tyr	Thr	Ser	Val	Ala	Pro	Thr	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu
	275						280					285			
Arg	Asn	Lys	Asp	Val	Lys	Val	Ala	Leu	Arg	Arg	Leu	Phe	Ser	Cys	Cys
	290					295					300				

<210> 1473  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1473

Met	Ser	Asn	Cys	Ser	Asn	Asn	Ala	Leu	Val	Thr	Glu	Phe	Ile	Leu	Leu
1				5					10					15	
Gly	Phe	Pro	Glu	Leu	Cys	His	Leu	Gln	Gly	Leu	Leu	Phe	Gly	Phe	Phe
		20						25					30		
Leu	Ile	Ile	Tyr	Val	Val	Thr	Val	Leu	Glu	Asn	Leu	Val	Ile	Val	Gly
	35						40					45			
Thr	Ile	Ser	Ala	Ser	Arg	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Ala	Asn	Leu	Ser	Val	Leu	Glu	Thr	Leu	Tyr	Thr	Thr	Val	Thr	Val	Pro
65					70					75					80
Lys	Leu	Leu	Ala	Asp	Leu	Leu	Ala	Gly	Ala	Lys	Thr	Ile	Ser	Phe	Ser
			85					90						95	
Gly	Cys	Leu	Thr	Gln	Leu	Phe	Leu	Phe	Leu	Ser	Leu	Gly	Ser	Ser	Glu
		100					105					110			
Cys	Phe	Leu	Leu	Ser	Thr	Met	Ala	Cys	Asp	Arg	Tyr	Leu	Ala	Ile	Cys
	115					120					125				
Arg	Pro	Leu	His	Tyr	Pro	Ala	Ile	Met	Asp	Ser	Lys	Leu	Cys	Leu	His
	130				135					140					
Leu	Ala	Leu	Ser	Ala	Trp	Leu	Gly	Gly	Phe	Leu	Ala	Ser	Phe	Val	Ser
145				150					155						160
Thr	Ala	Leu	Ile	Ser	Arg	Leu	Arg	Phe	Cys	Gly	Pro	Asn	Ala	Leu	Asn
			165					170						175	
His	Phe	Phe	Cys	Asp	Ile	Ser	Pro	Leu	Gln	Leu	Ser	Cys	Thr	Asp	
		180					185					190			
Thr	Thr	Ala	Ile	Glu	Met	Leu	Asp	Phe	Val	Ala	Ala	Leu	Ala	Val	Leu
	195					200						205			
Ala	Thr	Ser	Leu	Ile	Val	Thr	Ser	Val	Ser	Tyr	Val	His	Ile	Ile	Ala
	210					215				220					
Thr	Val	Leu	Arg	Ile	Pro	Gly	Gly	Ala	Gly	Arg	Arg	Lys	Ala	Phe	Ser
225				230					235						240
Thr	Cys	Ala	Ser	His	Leu	Val	Val	Val	Leu	Ile	Phe	Tyr	Thr	Thr	Thr
			245					250						255	
Thr	Phe	Met	Tyr	Ala	Arg	Pro	His	Ala	Ile	Ser	Ser	Phe	Asp	Leu	Asn
		260					265					270			
Lys	Leu	Val	Ser	Val	Ile	Tyr	Ser	Val	Val	Thr	Pro	Leu	Leu	Asn	Pro

275	280	285
Ile Ile Tyr Cys Leu Arg	Asn Arg Asp Ile Arg Glu	Ala Phe Thr Lys
290	295	300
Phe Leu Gln Pro Leu Arg	Phe Pro	
305	310	

<210> 1474  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1474

Met Arg Arg Asp Asn Glu Ser Thr Val Ser Glu Phe Ile Leu Leu Gly	
1 5 10 15	
Leu Pro Ile Arg Ala Glu Asp Gln Gly Leu Tyr Ser Ala Leu Phe Leu	
20 25 30	
Ala Met Tyr Leu Thr Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Leu	
35 40 45	
Ile Arg Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser	
50 55 60	
His Leu Ala Phe Thr Asp Ile Ser Phe Ser Ser Val Ala Ser Pro Lys	
65 70 75 80	
Met Val Ile Asn Met Leu Thr His Ser Gln Ser Ile Ser Tyr Ala Gly	
85 90 95	
Cys Val Ser Gln Val Tyr Phe Phe Ser Phe Phe Ala Asp Leu Glu Ser	
100 105 110	
Phe Leu Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His	
115 120 125	
Pro Leu His Tyr Ser Gln Ile Met Ser Glu Asn Leu Cys Val Leu Leu	
130 135 140	
Ile Val Val Ser Trp Thr Leu Ser Thr Ala Asn Ser Leu Val His Thr	
145 150 155 160	
Leu Leu Leu Val Gln Leu Ser Tyr Phe Arg Asn Asn Thr Ile Pro His	
165 170 175	
Tyr Phe Cys Asp Leu Ser Thr Leu Leu Lys Leu Ser Ser Ser Asp Thr	
180 185 190	
Thr Ile Asn Glu Leu Val Ile Leu Val Leu Gly Asn Met Val Ile Thr	
195 200 205	
Leu Pro Phe Ile Cys Ile Leu Val Ser Tyr Gly His Ile Gly Val Thr	
210 215 220	
Ile Met Lys Ile Pro Ser Ile Lys Gly Ile Cys Lys Ala Leu Ser Thr	
225 230 235 240	
Cys Gly Ser His Leu Cys Val Val Ser Leu Tyr Tyr Gly Ala Ile Ile	
245 250 255	
Gly Leu Tyr Phe Val Pro Ser Ser Asn Asn Thr Ser Asp Lys Asp Ala	
260 265 270	
Ile Val Ala Met Met Tyr Thr Met Val Ile Pro Met Leu Asn Pro Phe	
275 280 285	
Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Gly Ala Leu Arg Asn Ile	
290 295 300	
Leu Ser Gly Arg Leu Trp Ser Gln	
305 310	

<210> 1475  
 <211> 313

<212> PRT

<213> Mus musculus

<400> 1475

```
Met Arg Arg Asp Asn Glu Ser Thr Val Ser Glu Phe Ile Leu Leu Gly
 1           5           10           15
Leu Pro Ile Gln Pro Glu Asp Gln Gly Leu Tyr Ser Ala Leu Phe Leu
          20           25           30
Ala Met Tyr Leu Thr Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Leu
          35           40           45
Ile Arg Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
          50           55           60
His Leu Ala Phe Thr Asp Val Ser Phe Ser Ser Val Thr Ala Pro Lys
65           70           75           80
Met Leu Met Asn Met Leu Thr His Ser Gln Ser Ile Ser Tyr Ala Gly
          85           90           95
Cys Val Ser Gln Val Tyr Phe Phe Ser Thr Phe Thr Asp Leu Asp Ser
          100          105          110
Phe Leu Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
          115          120          125
Pro Leu His Tyr Thr Thr Ile Met Ser Gln Asn Leu Cys Val Leu Leu
          130          135          140
Val Val Met Ser Trp Val Leu Ser Ser Ala Asn Ala Leu Val His Thr
145          150          155          160
Leu Leu Leu Ala Arg Leu Ser His Phe Arg Asn Asn Thr Ile Pro His
          165          170          175
Tyr Phe Cys Glu Pro Ser Ala Leu Leu Ser Leu Ser Ser Ser Asp Thr
          180          185          190
Thr Ile Asn Glu Met Val Ile Leu Pro Leu Gly Thr Leu Val Ile Thr
          195          200          205
Leu Pro Phe Ile Cys Ile Leu Val Ser Tyr Gly Arg Ile Gly Val Thr
          210          215          220
Ile Leu Arg Thr Pro Ser Ile Lys Gly Ile Cys Lys Ala Leu Ser Thr
225          230          235          240
Cys Gly Ser His Leu Ser Val Val Cys Leu Tyr Tyr Gly Ala Ile Ile
          245          250          255
Gly Leu Tyr Leu Val Pro Ser Ser Asn Asn Thr Asn Asp Lys Asp Val
          260          265          270
Ile Val Ala Val Ile Tyr Ser Leu Val Thr Pro Met Val Asn Pro Phe
          275          280          285
Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Gly Ala Leu Arg Asn Ile
          290          295          300
Leu Asn Arg Arg Leu Cys Pro Gln Trp
305          310
```

<210> 1476

<211> 309

<212> PRT

<213> Mus musculus

<400> 1476

```
Met Arg Met Asp Asn Asp Ser Ala Leu Ser Glu Phe Ile Leu Leu Gly
 1           5           10           15
Leu Pro Ile Arg Ala Glu Asp Gln Ala Leu Tyr Ser Val Leu Ile Leu
          20           25           30
Ala Met Tyr Leu Thr Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Leu
```



Phe	Leu	Leu	Thr	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
	115						120					125			
Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	Ser	Gln	Ser	Leu	Cys	Leu	Phe	Leu
	130					135					140				
Val	Val	Val	Ser	Trp	Ala	Leu	Ser	Ser	Gly	Asn	Ala	Leu	Val	His	Thr
145					150					155					160
Leu	Leu	Leu	Ala	Lys	Leu	Ser	His	Phe	Arg	Asn	Asn	Thr	Val	Pro	His
				165					170					175	
Tyr	Phe	Cys	Asp	Leu	Ser	Ala	Met	Leu	Lys	Leu	Ser	Ser	Ser	Asp	Thr
			180					185					190		
Thr	Ile	Asn	Glu	Leu	Leu	Ile	Leu	Thr	Leu	Gly	Thr	Met	Val	Thr	Ile
	195					200						205			
Pro	Pro	Phe	Ile	Cys	Ile	Leu	Val	Ser	Tyr	Val	Arg	Ile	Gly	Val	Thr
	210					215					220				
Ile	Leu	Arg	Thr	Pro	Ser	Ile	Lys	Gly	Ile	Cys	Lys	Ala	Leu	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Cys	Val	Val	Ser	Leu	Tyr	Tyr	Gly	Ala	Ile	Ile
				245					250					255	
Ala	Leu	Tyr	Phe	Val	Pro	Ser	Ser	Asn	Asn	Thr	Asn	Asp	Lys	Asp	Val
			260					265					270		
Ile	Val	Ala	Leu	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe
		275				280						285			
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Met	Lys	Gly	Ala	Leu	Arg	Asn	Val
	290				295						300				
Leu	Ser	Arg	Arg	Leu	Cys	Ser	Gln								
305					310										

<210> 1478  
 <211> 306  
 <212> PRT  
 <213> Mus musculus

<400> 1478

Met	Asp	Asn	Glu	Ser	Thr	Val	Ser	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Pro
1				5					10					15	
Ile	Arg	Ala	Glu	Asp	Gln	Ala	Val	Tyr	Ser	Ala	Leu	Phe	Leu	Val	Leu
		20						25					30		
Tyr	Leu	Thr	Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Leu	Ile	Arg
	35					40						45			
Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His	Leu
	50				55					60					
Ala	Phe	Thr	Asp	Ile	Ser	Phe	Ser	Ser	Val	Thr	Ala	Pro	Lys	Met	Leu
65				70					75					80	
Val	Asn	Met	Leu	Thr	His	Ser	Gln	Ser	Ile	Ser	Tyr	Ala	Gly	Cys	Ile
			85					90					95		
Ser	Gln	Glu	Tyr	Phe	Phe	Thr	Val	Phe	Ala	Gly	Ile	Asp	Ser	Phe	Leu
		100						105				110			
Leu	Thr	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro	Leu
	115					120						125			
His	Tyr	Ile	Thr	Ile	Met	Asn	Gln	Asn	Leu	Cys	Val	Leu	Leu	Val	Val
	130				135						140				
Val	Ser	Trp	Ala	Leu	Ser	Ser	Ala	Asn	Cys	Leu	Val	His	Thr	Leu	Leu
145				150					155						160
Leu	Ala	Cys	Leu	Ser	His	Phe	Arg	Asn	Asn	Thr	Ile	Pro	His	Tyr	Phe
			165					170					175		
Cys	Asp	Leu	Ser	Thr	Leu	Leu	Lys	Leu	Ser	Ser	Ser	Asp	Thr	Thr	Ile







<210> 1481  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1481  
 Met Lys Ser Thr Arg Asn Gln Ser Ser Ala Ser Glu Phe Ile Leu Leu  
 1 5 10 15  
 Gly Leu Pro Ile Gln Pro Glu Glu Gln Gly Met Tyr Tyr Ala Leu Phe  
 20 25 30  
 Leu Ala Thr Tyr Leu Thr Thr Val Leu Gly Asn Leu Leu Ile Ile Leu  
 35 40 45  
 Leu Ile Arg Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Ser His Leu Ala Phe Thr Asp Ile Ser Phe Ser Ser Val Thr Ala Pro  
 65 70 75 80  
 Lys Met Leu Met Asn Met Leu Ile His Ser Gln Ser Ile Ser Tyr Ala  
 85 90 95  
 Gly Cys Ile Ser Gln Val Tyr Phe Phe Leu Phe Phe Ala Asp Leu Asp  
 100 105 110  
 Ser Phe Leu Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys  
 115 120 125  
 His Pro Leu His Tyr Thr Arg Ile Met Ser Gln Ser Ile Cys Ile Leu  
 130 135 140  
 Leu Val Ile Glu Ser Trp Phe Leu Ser Phe Ala Gly Ala Leu Val His  
 145 150 155 160  
 Thr Ile Leu Leu Ala Arg Leu Ser Phe Phe Arg Gly Asn Thr Val His  
 165 170 175  
 His Phe Phe Cys Asp Leu Ser Ala Leu Ile Lys Leu Ser Ser Ser Asp  
 180 185 190  
 Thr Ser Ile Asn Glu Leu Val Ile Leu Val Val Gly Ser Leu Val Ile  
 195 200 205  
 Thr Val Pro Phe Val Cys Ile Leu Val Ser Tyr Gly Arg Ile Gly Ala  
 210 215 220  
 Thr Ile Leu Lys Thr Pro Ser Ile Lys Gly Ile Cys Lys Ala Leu Ser  
 225 230 235 240  
 Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Tyr Tyr Gly Ala Ile  
 245 250 255  
 Ile Gly Leu Tyr Phe Val Pro Ser Ser Asn Asp Thr Asn Asp Lys Asp  
 260 265 270  
 Val Ile Val Ala Val Met Tyr Thr Met Val Thr Pro Met Leu Asn Pro  
 275 280 285  
 Phe Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Gly Ala Leu Arg Asn  
 290 295 300  
 Met Leu Ala Arg Ala Thr Ser Ser Met  
 305 310

<210> 1482  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1482  
 Met Thr Glu Gly Asn Glu Ser Ile Val Ser Glu Phe Ile Leu Leu Gly  
 1 5 10 15

Leu	Pro	Ile	Gln	Pro	Glu	Asp	Gln	Asp	Leu	Tyr	Ser	Ala	Leu	Phe	Leu			
			20					25					30					
Ala	Met	Tyr	Leu	Thr	Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Leu			
		35					40					45						
Ile	Arg	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser			
		50				55					60							
His	Leu	Ala	Phe	Thr	Asp	Ile	Ser	Phe	Ser	Ser	Val	Thr	Ala	Pro	Lys			
65					70					75					80			
Met	Leu	Met	Asn	Met	Leu	Thr	His	Ser	Gln	Ser	Ile	Ser	Tyr	Ala	Gly			
			85						90					95				
Cys	Val	Phe	Gln	Val	Tyr	Phe	Phe	Leu	Phe	Phe	Ala	Asp	Leu	Asp	Asn			
			100					105					110					
Phe	Leu	Leu	Thr	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His			
			115				120					125						
Pro	Leu	His	Tyr	Thr	Thr	Met	Met	Ser	Gln	Asn	Leu	Cys	Val	Leu	Leu			
			130			135					140							
Val	Val	Val	Ser	Trp	Thr	Leu	Ser	Thr	Ala	Asn	Ala	Leu	Val	His	Thr			
145					150					155					160			
Leu	Leu	Leu	Ala	Arg	Leu	Thr	His	Phe	Arg	Asp	Asn	Thr	Ile	Ser	His			
			165					170						175				
Tyr	Phe	Cys	Asp	Leu	Ser	Thr	Leu	Leu	Lys	Leu	Ser	Ser	Ser	Asp	Thr			
			180				185						190					
Thr	Thr	Asn	Lys	Leu	Val	Ile	Leu	Leu	Gly	Asn	Val	Ile	Ile	Thr				
		195				200					205							
Leu	Pro	Phe	Ile	Cys	Ile	Leu	Val	Ser	Tyr	Gly	Leu	Ile	Ala	Val	Thr			
		210				215					220							
Ile	Leu	Lys	Ile	Pro	Ser	Met	Lys	Gly	Ile	Cys	Lys	Ala	Leu	Ser	Thr			
225				230					235						240			
Cys	Gly	Ser	His	Leu	Cys	Val	Val	Ser	Leu	Tyr	Tyr	Gly	Ala	Ile	Ile			
			245					250						255				
Gly	Leu	Tyr	Phe	Val	Pro	Ser	Ser	Asn	Asn	Thr	Asn	Val	Gln	Asp	Ala			
			260					265					270					
Ile	Val	Ala	Val	Met	Tyr	Asn	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe			
		275				280						285						
Ile	Tyr	Ser	Leu	Arg	Asn	Gln	Asp	Met	Lys	Gly	Ala	Leu	Arg	Asn	Ile			
		290			295						300							
Leu	Ser	Arg	Arg	Leu	Cys	Leu	Gln											
305					310													

<210> 1483  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1483

Met	Glu	Asn	Glu	Ser	Ser	Val	Ser	Glu	Phe	Phe	Leu	Gln	Gly	Ile	Ser			
1				5					10					15				
Gly	Phe	Ser	Glu	Gln	Gln	Gln	Leu	Leu	Tyr	Gly	Leu	Phe	Leu	Cys	Met			
			20					25				30						
Tyr	Leu	Val	Thr	Leu	Thr	Gly	Asn	Val	Leu	Ile	Ile	Leu	Ala	Ile	Gly			
		35				40						45						
Ser	Asp	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Asn	Leu			
		50				55					60							
Ser	Phe	Ala	Asp	Met	Gly	Leu	Ile	Ser	Ser	Thr	Val	Thr	Lys	Met	Leu			
65				70					75					80				
Phe	Asn	Val	Gln	Thr	Arg	Cys	His	Thr	Ile	Ser	Tyr	Thr	Gly	Cys	Leu			



Met	Thr	Arg	Leu	Ser	Phe	Cys	Val	Val	Gly	Glu	Ile	Ala	His	Phe	Phe	
				165					170					175		
Cys	Asp	Ile	Thr	Ser	Val	Met	Lys	Leu	Ser	Cys	Ser	Asp	Thr	His	Val	
			180					185					190			
Asn	Glu	Leu	Val	Leu	Ser	Gly	Phe	Gly	Gly	Thr	Val	Leu	Met	Val	Pro	
		195				200						205				
Phe	Val	Ser	Ile	Val	Ile	Ser	Tyr	Val	Arg	Ile	Val	Phe	Ala	Val	Leu	
	210					215					220					
Arg	Val	Gln	Thr	Ser	Gly	Gly	Ser	Ser	Lys	Ala	Phe	Ser	Thr	Cys	Ser	
225					230					235					240	
Ser	His	Leu	Cys	Val	Val	Cys	Val	Phe	Tyr	Gly	Thr	Leu	Phe	Ser	Val	
			245					250					255			
Tyr	Leu	Phe	Pro	Ser	Ser	Gly	Glu	Thr	Thr	Glu	Lys	Asp	Val	Val	Ala	
		260						265					270			
Ala	Ala	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr	
	275						280					285				
Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Gly	Ala	Leu	Lys	Arg	Leu	Leu	Cys	
	290				295						300					
His	Arg	Arg	Lys	Phe	Ser	Pro										
305					310											

<210> 1485  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1485

Met	Ser	Cys	Ile	Ile	Arg	Asn	Asn	His	Ser	Ile	Thr	Ser	Glu	Phe	Ile	
1				5					10					15		
Leu	Leu	Gly	Leu	Pro	Ile	Asn	Pro	Glu	Leu	Asn	Gly	Met	Tyr	Ser	Ala	
			20					25					30			
Leu	Phe	Leu	Ala	Met	Tyr	Leu	Thr	Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	
	35					40					45					
Ile	Leu	Leu	Ile	Arg	Leu	Asp	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Phe	
	50				55						60					
Phe	Leu	Ser	His	Leu	Ala	Phe	Thr	Asp	Ile	Ser	Phe	Ser	Ser	Val	Thr	
65				70					75					80		
Ala	Pro	Lys	Met	Leu	Val	Asn	Met	Leu	Thr	His	Ser	Gln	Ser	Ile	Ser	
			85					90					95			
Tyr	Thr	Gly	Cys	Ile	Ser	Gln	Val	Tyr	Phe	Phe	Leu	Phe	Phe	Ala	Asp	
		100					105						110			
Leu	Asp	Ser	Phe	Leu	Leu	Thr	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	
	115					120					125					
Ile	Cys	His	Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	Ser	Gln	Ser	Leu	Cys	
	130				135						140					
Val	Leu	Leu	Leu	Ile	Val	Ser	Trp	Val	Leu	Ser	Phe	Ala	Ser	Ala	Ile	
145				150						155					160	
Leu	His	Thr	Leu	Leu	Leu	Ala	His	Leu	Ser	Phe	Ser	Gly	Gly	Asn	Thr	
			165					170						175		
Leu	Pro	His	Phe	Phe	Cys	Asp	Leu	Ser	Ala	Leu	Leu	Lys	Leu	Ser	Ser	
		180					185					190				
Ser	Asp	Thr	Thr	Ile	Asn	Glu	Leu	Val	Ile	Phe	Thr	Val	Gly	Val	Val	
	195					200						205				
Ile	Ile	Thr	Val	Pro	Leu	Ile	Cys	Ile	Leu	Val	Ser	Tyr	Gly	Tyr	Ile	
	210				215						220					
Gly	Ala	Thr	Ile	Leu	Arg	Thr	Pro	Ser	Ile	Lys	Gly	Ile	Tyr	Lys	Ala	



Gly Lys Leu Phe Gly Gly Gly Lys Thr Val Phe Leu Leu  
 305 310 315

<210> 1487  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1487  
 Met Arg Met Asp Asn Glu Ser Thr Val Ser Glu Phe Ile Leu Leu Gly  
 1 5 10 15  
 Leu Pro Ile Arg Ala Lys Asp Gln Ala Val Tyr Ser Ala Leu Ile Leu  
 20 25 30  
 Ala Met Tyr Leu Thr Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Leu  
 35 40 45  
 Ile Arg Leu Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 His Leu Ala Leu Thr Asp Ile Ser Phe Ser Ser Val Thr Val Pro Arg  
 65 70 75 80  
 Met Leu Val Asn Met Leu Thr Gln Ser Gln Ser Ile Ser Tyr Thr Gly  
 85 90 95  
 Cys Ile Ser Gln Val Tyr Phe Phe Ile Val Phe Gly Ser Ile Asp Ser  
 100 105 110  
 Phe Leu Leu Pro Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His  
 115 120 125  
 Pro Leu His Tyr Thr Leu Ile Met Asn Leu Asn Leu Cys Val Leu Leu  
 130 135 140  
 Val Val Val Ser Trp Ala Leu Ser Leu Val Asn Ala Leu Val His Thr  
 145 150 155 160  
 Leu Leu Leu Ala Arg Leu Ser His Phe Arg Asn Asn Ile Ile Pro His  
 165 170 175  
 Tyr Phe Cys Asp Leu Ser Ala Leu Leu Lys Leu Ser Ser Ser Asp Thr  
 180 185 190  
 Ser Ile Asn Glu Leu Val Ile Leu Val Leu Gly Asn Val Val Ile Thr  
 195 200 205  
 Leu Pro Phe Ile Cys Ile Leu Val Ser Tyr Gly Tyr Ile Gly Val Thr  
 210 215 220  
 Ile Leu Lys Thr Pro Ser Thr Lys Gly Ile Arg Lys Ala Leu Ser Thr  
 225 230 235 240  
 Cys Gly Ser His Leu Cys Val Val Ser Leu Tyr Tyr Gly Ser Val Ile  
 245 250 255  
 Gly Leu Tyr Cys Val Pro Ser Ser Asn Asn Thr Asn Asp Lys Asp Ala  
 260 265 270  
 Ile Val Ala Met Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Arg Ala Leu Arg Asn Ile  
 290 295 300  
 Leu Ser Arg Lys Lys  
 305

<210> 1488  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 1488

Met	Pro	Gly	Gln	Asn	Tyr	Ser	Thr	Ile	Ser	Glu	Phe	Ile	Leu	Phe	Gly
1				5					10					15	
Phe	Ser	Ala	Phe	Pro	His	Gln	Met	Leu	Pro	Ala	Leu	Phe	Leu	Leu	Tyr
			20					25					30		
Leu	Leu	Met	Tyr	Leu	Phe	Thr	Leu	Leu	Gly	Asn	Leu	Val	Ile	Met	Ala
		35					40					45			
Ala	Ile	Trp	Thr	Glu	His	Arg	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu
	50				55					60					
Cys	Ala	Leu	Ser	Ile	Ser	Glu	Ile	Leu	Phe	Thr	Val	Val	Ile	Thr	Pro
65				70					75					80	
Arg	Met	Leu	Ser	Asp	Met	Leu	Ser	Thr	His	Arg	Ser	Ile	Thr	Phe	Ile
			85					90					95		
Ala	Cys	Ala	Asn	Gln	Leu	Phe	Phe	Ser	Phe	Thr	Phe	Gly	Tyr	Thr	His
			100					105					110		
Ser	Phe	Leu	Leu	Val	Val	Met	Gly	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
	115						120					125			
Arg	Pro	Leu	His	Tyr	His	Ala	Leu	Met	Ser	Leu	Gln	Gly	Cys	Ala	Arg
	130					135					140				
Leu	Val	Ala	Trp	Ser	Trp	Ala	Gly	Gly	Ser	Leu	Ile	Gly	Met	Ala	Leu
145					150					155				160	
Thr	Ile	Ile	Ile	Phe	His	Leu	Thr	Phe	Cys	Glu	Ser	Asn	Val	Ile	His
				165				170						175	
His	Ile	Leu	Cys	His	Val	Phe	Ser	Leu	Leu	Lys	Leu	Ala	Cys	Gly	Glu
		180						185					190		
Arg	Thr	Ala	Phe	Val	Thr	Ile	Ala	Val	Ile	Leu	Val	Cys	Val	Thr	Pro
	195					200						205			
Leu	Ile	Gly	Cys	Leu	Val	Phe	Ile	Ile	Leu	Ser	Tyr	Ile	Phe	Ile	Val
	210					215					220				
Ala	Ala	Ile	Leu	Arg	Ile	Pro	Ser	Thr	Glu	Gly	Arg	His	Lys	Thr	Phe
225					230					235					240
Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Ile	Val	His	Tyr	Gly	Phe
			245					250						255	
Ala	Ser	Ile	Ile	Tyr	Leu	Lys	Ser	Arg	Gly	Leu	Tyr	Ser	Gln	Tyr	Thr
		260						265						270	
Asp	Thr	Leu	Met	Ser	Thr	Thr	Tyr	Thr	Val	Phe	Thr	Pro	Phe	Leu	Ser
	275						280					285			
Pro	Ile	Ile	Phe	Ser	Leu	Arg	Asn	Lys	Glu	Leu	Lys	Asn	Ala	Ile	Ile
	290					295					300				
Lys	Ser	Phe	His	Arg	Asn	Val	Cys	Gln	Gln	Ser	Ile				
305					310					315					

<210> 1489

<211> 315

<212> PRT

<213> Mus musculus

<400> 1489

Met	Glu	Glu	Gly	Asn	Gln	Thr	Gly	Met	Val	Leu	Phe	His	Phe	Arg	Pro
1				5				10						15	
Phe	Ser	Lys	Leu	Pro	Glu	Val	Gln	Met	Leu	Ile	Phe	Val	Leu	Phe	Leu
			20					25					30		
Met	Met	Tyr	Leu	Val	Ser	Ile	Gly	Gly	Asn	Met	Ser	Ile	Val	Leu	Thr
		35					40					45			
Ile	Trp	Thr	Asn	Arg	Cys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala
	50					55					60				



Asn	Leu	Ala	Ser	Leu	Glu	Ile	Phe	Tyr	Ser	Ser	Thr	Ile	Ala	Pro	Leu
65					70					75					80
Thr	Leu	Ala	Ser	Ile	Leu	Ser	Thr	Glu	Arg	Thr	Val	Val	Ser	Leu	Ala
				85					90					95	
Gly	Cys	Gly	Ala	Gln	Met	Phe	Phe	Phe	Ile	Phe	Leu	Gly	Ser	Ala	Asp
			100					105					110		
Cys	Ile	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys
	115						120					125			
His	Pro	Leu	Arg	Tyr	Thr	Leu	Ile	Met	Ser	Trp	His	Leu	Cys	Val	Gln
	130					135					140				
Leu	Ala	Leu	Gly	Ser	Leu	Leu	Leu	Gly	Phe	Ile	Leu	Ala	Met	Gln	Leu
145					150					155					160
Thr	Val	Leu	Ile	Phe	Arg	Leu	Pro	Phe	Cys	Ser	Ser	Lys	Glu	Ile	Ser
				165					170					175	
Leu	Phe	Tyr	Cys	Asp	Val	Leu	Pro	Val	Met	Arg	Leu	Ala	Cys	Ala	Asp
			180					185					190		
Thr	His	Val	His	Glu	Ala	Thr	Leu	Phe	Val	Val	Ser	Val	Ile	Val	Leu
	195						200					205			
Thr	Ile	Pro	Phe	Leu	Leu	Ile	Thr	Leu	Ser	Tyr	Val	Phe	Ile	Val	Asp
	210					215					220				
Ala	Ile	Leu	Lys	Ile	Arg	Ser	Ala	Glu	Gly	Arg	His	Lys	Ala	Phe	Ser
225					230					235					240
Thr	Cys	Ser	Ser	His	Leu	Thr	Val	Val	Leu	Leu	Gln	Tyr	Gly	Cys	Gly
				245					250					255	
Ser	Leu	Ile	Tyr	Leu	Cys	Pro	Ser	Ser	Ser	Tyr	Ser	Pro	Glu	Arg	Gly
			260					265					270		
Gln	Val	Val	Ser	Val	Val	Tyr	Thr	Phe	Ile	Thr	Pro	Val	Leu	Asn	Pro
	275						280					285			
Leu	Ile	Tyr	Ser	Met	Arg	Asn	Arg	Glu	Leu	Lys	Asp	Ala	Leu	Arg	Lys
	290					295					300				
Val	Val	Ile	Ser	Phe	Leu	Leu	Leu	Glu	Lys	Gln					
305					310					315					

<210> 1490  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1490

Met	Asp	Ser	Tyr	Asn	Gln	Thr	Phe	Thr	Gly	Phe	Ile	Leu	Leu	Gly	Leu
1				5					10					15	
Phe	Pro	Pro	Ser	Lys	Ile	Gly	Leu	Phe	Leu	Phe	Ile	Leu	Ile	Val	Leu
			20					25					30		
Ile	Phe	Leu	Thr	Ala	Trp	Ile	Gly	Asn	Leu	Ser	Met	Ile	Leu	Leu	Ile
		35					40					45			
Leu	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Ser	Gln
	50					55					60				
Leu	Ser	Leu	Ile	Asp	Leu	Asn	Tyr	Ile	Ser	Thr	Ile	Val	Pro	Lys	Met
65					70					75					80
Val	Ser	Asp	Phe	Met	Leu	Gly	Asn	Lys	Tyr	Ile	Ser	Phe	Ile	Gly	Cys
				85					90					95	
Gly	Phe	Gln	Ile	Phe	Leu	Phe	Leu	Thr	Phe	Gly	Gly	Ala	Glu	Thr	Leu
			100					105					110		
Leu	Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe	Pro
		115					120					125			
Leu	His	Tyr	Ala	Thr	His	Met	Asn	Lys	Arg	Val	Cys	Val	Met	Met	Ile

130	135	140
Thr Gly Ala Trp Ile	Leu Gly Ser Ile Asn Ser Cys Ala His Thr Gly	
145	150	155
Tyr Ala Leu Gln Ile	Pro Tyr Cys Arg Ser Arg Ala Ile Asn His Phe	160
	165	170
Phe Cys Asp Val	Pro Ala Met Leu Thr Leu Ala Cys Thr Asp Thr Trp	175
	180	185
Val Tyr Glu Tyr Thr	Val Phe Val Ser Thr Ile Leu Phe Leu Val Phe	190
	195	200
Pro Phe Ile Gly Ile	Val Cys Ser Tyr Gly Arg Val Phe Leu Ala Ile	205
	210	215
Tyr Arg Met His Ser	Arg Ala Gly Lys Lys Lys Ala Tyr Ser Thr Cys	220
225	230	235
Ser Thr His Leu Thr	Val Val Thr Phe Tyr Tyr Ala Pro Phe Ala Tyr	240
	245	250
Thr Tyr Leu Arg Pro	Arg Ser Leu Arg Ser Pro Glu Glu Asp Lys Ile	255
	260	265
Leu Ala Val Phe Tyr	Thr Val Leu Thr Pro Met Leu Asn Pro Ile Ile	270
	275	280
Tyr Ser Leu Arg Asn	Lys Glu Val Ile Gly Ala Leu Arg Arg Met Thr	285
	290	295
His Arg Ile Cys Phe	Ala Lys Ile	300
305	310	

<210> 1491  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 1491

Met Asn Trp Ile Leu His Ser Thr Met Val Ser Pro Asn Gln Thr Val	
1 5 10 15	
Val Thr Glu Phe Val Leu Gln Gly Phe Ser Glu His Pro Ser Leu Arg	
20 25 30	
Leu Phe Leu Met Gly Cys Phe Leu Ser Leu Tyr Thr Val Ala Leu Met	
35 40 45	
Gly Asn Met Val Ile Ile Ala Leu Ile Thr Ser Ser Thr Gly Leu His	
50 55 60	
Ser Pro Met Tyr Phe Phe Leu Cys Asn Leu Ala Thr Met Asp Ile Ile	
65 70 75 80	
Cys Thr Ser Ser Val Leu Pro Lys Ala Leu Val Gly Leu Leu Ser Glu	
85 90 95	
Glu Asn Thr Ile Ser Phe Lys Gly Cys Met Thr Gln Leu Phe Phe Leu	
100 105 110	
Val Trp Ser Gly Ser Ser Glu Leu Leu Leu Thr Val Met Ala Tyr	
115 120 125	
Asp Arg Tyr Val Ala Ile Cys Leu Pro Leu His Tyr Ser Ser Arg Met	
130 135 140	
Ser Pro Gln Leu Cys Gly Thr Phe Ala Val Gly Val Trp Ser Ile Cys	
145 150 155 160	
Ala Leu Asn Ala Ser Ile Asn Thr Gly Leu Met Thr Arg Leu Ser Phe	
165 170 175	
Cys Gly Pro Lys Val Ile Thr His Phe Phe Cys Glu Ile Pro Pro Leu	
180 185 190	
Leu Leu Leu Ser Cys Ser Pro Thr Tyr Ile Asn Ser Val Met Thr Leu	
195 200 205	

Val	Ala	Asp	Ala	Phe	Tyr	Gly	Gly	Ile	Asn	Phe	Leu	Leu	Thr	Leu	Leu
210						215					220				
Ser	Tyr	Gly	Cys	Ile	Ile	Ala	Ser	Ile	Leu	Arg	Met	Arg	Ser	Ala	Glu
225				230						235					240
Gly	Lys	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Ile	Val	Val
			245						250					255	
Ser	Val	Tyr	Tyr	Ser	Ser	Val	Phe	Cys	Ala	Tyr	Ile	Ser	Pro	Gly	Ser
		260					265						270		
Ser	Tyr	Ser	Pro	Glu	Arg	Ser	Lys	Phe	Thr	Ser	Val	Leu	Tyr	Ser	Val
	275					280						285			
Leu	Ser	Pro	Thr	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp
290					295						300				
Val	Lys	Leu	Ala	Leu	Arg	Arg	Leu	Phe	Pro	Ser	Phe	Ser	Asn		
305					310					315					

<210> 1492  
 <211> 322  
 <212> PRT  
 <213> Mus musculus

<400> 1492

Met	Pro	Leu	Glu	Ala	Glu	Ser	Ile	Met	Arg	Asn	Ser	Thr	Ala	Val	Thr
1				5				10						15	
Asp	Phe	Ile	Leu	Leu	Gly	Leu	Thr	Asp	Asp	Pro	Leu	Trp	Gln	Ile	Val
		20					25						30		
Val	Phe	Thr	Phe	Leu	Leu	Val	Thr	Tyr	Met	Leu	Ser	Val	Thr	Gly	Asn
		35				40						45			
Leu	Ile	Ile	Ile	Ile	Leu	Thr	Leu	Ser	Asp	Ala	His	Leu	Met	Thr	Pro
	50				55					60					
Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe	Ser	Leu	Leu	Glu	Ile	Ser	Phe	Thr
65				70				75						80	
Ser	Val	Cys	Ile	Pro	Arg	Phe	Leu	Val	Thr	Ile	Val	Thr	Gly	Asp	Arg
			85					90					95		
Thr	Ile	Ser	Tyr	Asn	Gly	Cys	Val	Ala	Gln	Leu	Phe	Phe	Phe	Ile	Phe
		100					105						110		
Leu	Gly	Val	Thr	Glu	Phe	Tyr	Leu	Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg
	115					120					125				
Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	Ser	Asn
	130				135						140				
Arg	Val	Cys	Ile	Leu	Leu	Val	Phe	Ser	Ser	Trp	Phe	Ala	Gly	Phe	Met
145				150						155					160
Ile	Ile	Phe	Pro	Pro	Ile	Ile	Leu	Leu	Leu	Gln	Leu	Asp	Phe	Cys	Ala
			165						170					175	
Ser	Asn	Ile	Ile	Asp	His	Phe	Ile	Cys	Asp	Ser	Ser	Pro	Ile	Leu	Gln
		180						185					190		
Leu	Ser	Cys	Ser	Asn	Thr	His	Phe	Leu	Glu	Leu	Met	Ala	Phe	Ser	Leu
	195					200						205			
Ala	Val	Val	Thr	Leu	Met	Val	Thr	Leu	Thr	Leu	Ile	Ile	Leu	Ser	Tyr
	210				215						220				
Thr	Asn	Ile	Ile	Arg	Thr	Ile	Leu	Arg	Ile	Pro	Ser	Thr	Asn	Gln	Arg
225				230						235					240
Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Met	Ile	Val	Val	Ser	Leu
			245						250					255	
Ser	Tyr	Gly	Ser	Cys	Ile	Phe	Met	Tyr	Ile	Lys	Pro	Ser	Ala	Arg	Glu
	260						265					270			
Arg	Val	Thr	Leu	Ser	Lys	Gly	Val	Ala	Val	Leu	Asn	Thr	Ser	Val	Ala

275	280	285
Pro Leu Leu Asn Pro Phe Ile Tyr Thr Leu Arg Asn Gln Gln Val Lys		
290	295	300
Gln Ala Phe Lys Asn Met Ile Gln Arg Ile Phe Phe Ser Ser Lys Asn		
305	310	315
Leu Pro		320

<210> 1493  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1493

Met Ser Asn His Thr Glu Thr Thr Glu Phe Ile Leu Leu Gly Leu Ser	
1 5 10 15	
Asp Asp Pro Lys Leu Gln Val Val Ile Phe Val Phe Leu Phe Ile Thr	
20 25 30	
Tyr Thr Leu Ser Ile Thr Gly Asn Leu Thr Ile Ile Thr Leu Thr Leu	
35 40 45	
Leu Asp Ser His Leu Gln Thr Pro Met Tyr Phe Phe Leu Arg Asn Phe	
50 55 60	
Ser Val Leu Glu Val Ser Phe Thr Thr Val Thr Ile Pro Lys Phe Leu	
65 70 75 80	
Gly Thr Ile Ile Ser Gly Asp Lys Thr Ile Ser Phe Asn Asn Cys Ile	
85 90 95	
Ala Gln Leu Phe Phe Phe Ile Leu Leu Gly Val Thr Glu Phe Tyr Leu	
100 105 110	
Leu Ala Ala Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu	
115 120 125	
His Tyr Leu Thr Ile Met Ser Gln Lys Val Cys Thr Met Leu Val Phe	
130 135 140	
Ala Ser Trp Leu Thr Ser Phe Leu Ile Ile Phe Pro Ala Leu Met Leu	
145 150 155 160	
Leu Leu Gln Leu Asp Tyr Cys Gly Ser Asn Ile Ile Asp His Tyr Thr	
165 170 175	
Cys Asp Tyr Phe Pro Leu Leu Gln Leu Ser Cys Ser Asp Thr Lys Phe	
180 185 190	
Leu Glu Arg Met Gly Phe Ser Cys Ala Val Phe Thr Leu Met Leu Thr	
195 200 205	
Leu Val Leu Ile Phe Leu Ser Tyr Thr Tyr Ile Ile Lys Thr Ile Val	
210 215 220	
Lys Ile Pro Ser Ala Ser Gln Arg Ser Lys Ala Phe Ser Thr Cys Ser	
225 230 235 240	
Ser His Met Ile Val Ile Ser Ile Ser Tyr Gly Ser Cys Ile Phe Met	
245 250 255	
Tyr Ile Lys Pro Ser Ala Thr Asp Arg Ala Ser Leu Thr Lys Gly Val	
260 265 270	
Ala Ile Leu Asn Thr Ser Val Ala Pro Met Leu Asn Pro Phe Ile Tyr	
275 280 285	
Ser Leu Arg Asn Gln Gln Val Lys Gln Ala Phe Met Asn Met Thr Arg	
290 295 300	
Lys Ile Val Phe Ser Thr Ser Lys	
305 310	

<210> 1494  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1494

Met	Asp	Glu	Glu	Asn	Gln	Thr	Thr	Thr	Thr	Glu	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Asp	Leu	Arg	Ala	Leu	Gln	Gly	Pro	Leu	Phe	Trp	Leu	Val	Leu
			20					25					30		
Leu	Val	Tyr	Leu	Ile	Thr	Phe	Leu	Gly	Asn	Ser	Leu	Ile	Ile	Phe	Leu
		35					40					45			
Thr	Gln	Thr	Ser	Pro	Val	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Arg
		50				55					60				
His	Leu	Ser	Met	Val	Glu	Leu	Leu	Tyr	Thr	Thr	Asp	Ile	Val	Pro	Arg
65					70					75					80
Val	Leu	Ala	Asp	Leu	Thr	Ser	Ser	His	Pro	Gln	Ala	Ile	Ser	Phe	Arg
				85					90					95	
Ser	Cys	Ala	Ala	Gln	Met	Tyr	Phe	Phe	Ile	Val	Leu	Gly	Ile	Ser	Glu
			100					105					110		
Cys	Cys	Leu	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys
		115				120						125			
Gln	Pro	Leu	His	Tyr	Ser	Thr	Leu	Met	Asn	His	Arg	Ala	Cys	Ile	Ala
	130					135					140				
Met	Val	Gly	Thr	Ser	Trp	Ile	Met	Gly	Ile	Ile	Thr	Ala	Thr	Thr	His
145					150					155					160
Ser	Ser	Leu	Ile	Phe	Thr	Leu	Pro	Phe	Pro	Ser	Arg	Pro	Ile	Ile	Pro
				165					170					175	
His	Phe	Leu	Cys	Asp	Ile	Leu	Pro	Val	Leu	Arg	Leu	Ala	Ser	Ala	Gly
			180					185					190		
Lys	His	Arg	Ser	Glu	Ile	Ser	Val	Met	Thr	Ala	Thr	Val	Val	Phe	Ile
		195					200					205			
Met	Ile	Pro	Phe	Ser	Leu	Ile	Val	Thr	Ser	Tyr	Ala	Arg	Ile	Leu	Gly
	210					215					220				
Ala	Ile	Leu	Ala	Ile	Ala	Ser	Ser	Gln	Ser	Arg	Arg	Lys	Val	Phe	Ser
225					230					235					240
Thr	Cys	Ser	Ser	His	Leu	Leu	Val	Val	Ser	Leu	Phe	Phe	Gly	Thr	Ala
				245					250					255	
Ser	Ile	Thr	Tyr	Ile	Arg	Pro	Arg	Ala	Gly	Ser	Ser	Val	Thr	Thr	Asp
			260					265					270		
Arg	Ile	Leu	Ser	Leu	Phe	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro
		275					280					285			
Ile	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Ile	Gly	Ala	Leu	Lys	His
	290					295					300				
Met	Lys	Arg	Gln	Val	Pro										
305					310										

<210> 1495  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1495

Met	Arg	Asn	His	Ser	Ser	Ile	Thr	Thr	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Asp	Asp	Pro	Gln	Leu	Gln	Val	Leu	Leu	Phe	Ile	Phe	Leu	Phe	Leu	Thr



Thr	Gln	Leu	Phe	Ala	Ala	Phe	Ile	Phe	Gly	Ile	Ala	Gln	Phe	Phe	Leu
			100					105					110		
Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg	Pro	Leu
		115					120					125			
His	Tyr	Thr	Thr	Ile	Met	Asn	Asn	Arg	Val	Cys	Thr	Leu	Leu	Phe	Val
	130				135						140				
Ser	Cys	Cys	Leu	Ile	Ala	Val	Phe	Ala	Ile	Cys	Pro	Gly	Val	Ile	Val
145					150					155					160
Ser	Leu	Ser	Leu	Glu	Phe	Cys	Asp	Thr	Ile	Ile	Glu	His	Phe	Phe	Cys
				165					170					175	
Asp	Tyr	Ser	Pro	Ile	Leu	Lys	Leu	Ser	Cys	Asn	Asp	Thr	Arg	Phe	Met
			180					185					190		
Gln	Leu	Leu	Asn	Phe	Ile	Phe	Ala	Ile	Phe	Ile	Leu	Leu	Met	Thr	Leu
		195					200					205			
Ala	Leu	Val	Met	Phe	Ser	Tyr	Gly	Lys	Ile	Ile	Ser	Thr	Ile	Leu	Arg
	210					215					220				
Phe	Pro	Ser	Ala	Gln	Gln	Gln	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser
225					230					235					240
His	Met	Ile	Val	Val	Ser	Ile	Ser	Tyr	Gly	Ser	Cys	Ile	Phe	Met	Tyr
			245						250					255	
Ile	Lys	Pro	Ser	Ala	Glu	Glu	Arg	Ile	Tyr	Leu	Asn	Lys	Gly	Ile	Ala
			260					265					270		
Ile	Leu	Thr	Leu	Ala	Leu	Ala	Pro	Val	Leu	Asn	Pro	Phe	Ile	Tyr	Thr
		275					280					285			
Leu	Arg	Asn	Lys	Gln	Val	Lys	Glu	Ala	Leu	Lys	Asp	Ile	Ile	Lys	Lys
	290					295					300				
Cys	Thr	Ser	Ala	Thr	Ser	Lys									
305					310										

<210> 1497  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1497

Met	Pro	Asn	Lys	Thr	Ser	Ile	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Asp	Asp	Pro	Glu	Leu	Gln	Ile	Val	Ile	Phe	Phe	Phe	Leu	Leu	Ala	Thr
			20					25					30		
Tyr	Leu	Leu	Ser	Val	Ser	Gly	Asn	Met	Thr	Ile	Ile	Thr	Leu	Thr	Leu
	35					40						45			
Ser	Asn	Val	His	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe
	50				55						60				
Ser	Phe	Leu	Glu	Ile	Leu	Phe	Thr	Thr	Val	Cys	Ile	Pro	Arg	Phe	Leu
65					70				75						80
Ile	Ser	Ile	Ile	Thr	Gly	Asn	Thr	Ala	Ile	Ser	Tyr	Asn	Ala	Cys	Met
			85					90						95	
Ala	Gln	Val	Phe	Phe	Leu	Ile	Phe	Leu	Gly	Ala	Thr	Glu	Phe	Phe	Leu
		100						105					110		
Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
	115					120						125			
His	Tyr	Thr	Ala	Ile	Ile	Asn	Asn	Lys	Val	Cys	Asn	Gln	Leu	Val	Ile
	130					135					140				
Ala	Ser	Trp	Ser	Ala	Gly	Phe	Leu	Ile	Val	Phe	Pro	Pro	Val	Ile	Met
145					150					155					160
Gly	Leu	Gln	Leu	Glu	Phe	Cys	Asp	Ser	Asn	Ile	Ile	Asp	His	Phe	Thr

				165					170					175					
Cys	Asp	Ser	Ser	Pro	Met	Leu	Gln	Ile	Ala	Cys	Thr	Asp	Thr	Lys	Ile				
			180					185					190						
Leu	Glu	Leu	Met	Ala	Phe	Phe	Leu	Ala	Val	Phe	Thr	Leu	Ile	Val	Thr				
		195					200					205							
Leu	Ala	Leu	Val	Ile	Leu	Ser	Tyr	Thr	Leu	Ile	Leu	Arg	Thr	Ile	Leu				
	210				215						220								
Lys	Ile	Pro	Ser	Ala	Glu	Gln	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser				
225				230						235					240				
Ser	His	Met	Ile	Val	Ser	Ile	Ser	Tyr	Gly	Ser	Cys	Ile	Phe	Met					
			245				250					255							
Tyr	Val	Lys	Thr	Ser	Ala	Arg	Glu	Gly	Val	Val	Leu	Ser	Lys	Gly	Val				
		260					265					270							
Ala	Met	Leu	Asn	Thr	Ser	Val	Ala	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr				
	275					280					285								
Thr	Leu	Arg	Asn	Gln	Gln	Val	Lys	Gln	Ala	Phe	Lys	Asp	Phe	Thr	Arg				
	290			295							300								
Lys	Leu	Leu	Ala	Ser	Lys	Lys	His												
305					310														

<210> 1498  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1498

Met	Lys	Asn	Arg	Thr	Val	Thr	Thr	Phe	Ile	Leu	Leu	Gly	Leu	Thr	Asp				
1				5				10					15						
Asp	Ile	Arg	Leu	Gln	Thr	Leu	Leu	Phe	Ile	Phe	Leu	Leu	Phe	Ser	Tyr				
		20					25					30							
Met	Leu	Ser	Leu	Ser	Gly	Asn	Leu	Thr	Ile	Ile	Thr	Leu	Thr	Leu	Ile				
	35				40						45								
Asp	Pro	His	Leu	Lys	Thr	Pro	Met	Tyr	Ile	Phe	Leu	Lys	Asn	Phe	Ser				
	50				55					60									
Phe	Leu	Glu	Ile	Ser	Leu	Thr	Thr	Ala	Cys	Ile	Pro	Arg	Phe	Leu	Tyr				
65				70				75						80					
Ser	Leu	Ser	Ser	Gly	Asp	Lys	Ser	Ile	Ala	Tyr	Ala	Ala	Cys	Ile	Ser				
			85				90						95						
Gln	Leu	Leu	Phe	Ile	Asp	Ile	Phe	Ala	Val	Thr	Glu	Phe	Phe	Leu	Leu				
		100					105						110						
Ala	Ile	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	His				
	115				120							125							
Tyr	Met	Thr	Ile	Met	Asn	Ser	Arg	Val	Cys	Lys	Asn	Phe	Ile	Phe	Phe				
	130				135						140								
Cys	Trp	Val	Ala	Ala	Leu	Ile	Ile	Val	Leu	Pro	Pro	Ile	Ser	Leu	Gly				
145				150				155						160					
Leu	Gly	Leu	Glu	Phe	Cys	Asp	Ser	Asp	Ile	Val	Asp	His	Phe	Cys	Cys				
			165					170					175						
Asp	Ala	Ala	Pro	Leu	Leu	Lys	Ile	Ser	Cys	Ser	Asp	Thr	Trp	Leu	Ile				
		180					185						190						
Glu	Gln	Met	Val	Ile	Ala	Gly	Ala	Val	Leu	Thr	Phe	Ile	Ile	Thr	Phe				
	195				200							205							
Val	Cys	Val	Val	Leu	Ser	Tyr	Gly	Tyr	Ile	Ile	Lys	Thr	Ile	Leu	Arg				
	210				215						220								
Phe	Pro	Ser	Ala	Lys	Gln	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser				
225				230						235					240				





305

310

<210> 1500  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1500

Met	Glu	Thr	Glu	Asn	Asp	Thr	Met	Val	Thr	Glu	Phe	Ile	Ile	Leu	Gly
1				5					10					15	
Leu	Thr	Asp	Ser	Ala	Thr	Leu	Arg	Ala	Ile	Leu	Phe	Val	Phe	Phe	Leu
		20						25					30		
Pro	Val	Tyr	Ile	Val	Thr	Val	Val	Gly	Asn	Ile	Ser	Ile	Ile	Leu	Leu
		35					40					45			
Ile	Arg	Ser	Ser	Pro	Gln	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50					55					60				
His	Leu	Ala	Phe	Val	Asp	Ile	Gly	Tyr	Ser	Thr	Ser	Val	Thr	Pro	Ile
65					70					75					80
Met	Leu	Ile	Ser	Phe	Leu	Arg	Glu	Glu	Thr	Thr	Ile	Pro	Leu	Ala	Gly
				85					90					95	
Cys	Ala	Ala	Gln	Leu	Gly	Ser	Asp	Val	Ala	Phe	Gly	Thr	Thr	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Thr	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Ser
	115						120					125			
Pro	Leu	Leu	Tyr	Ser	Thr	Gln	Met	Ser	Pro	Ala	Ile	Cys	Cys	Phe	Leu
	130					135					140				
Leu	Gly	Ala	Ser	Tyr	Leu	Gly	Gly	Cys	Met	Asn	Ala	Ser	Ser	Phe	Thr
145					150					155					160
Gly	Cys	Phe	Val	Asn	Leu	Asn	Phe	Cys	Gly	Pro	Asn	Lys	Val	Asn	His
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Phe	Pro	Leu	Val	Lys	Leu	Ser	Cys	Gly	His	Ala
			180					185					190		
Tyr	Ile	Ala	Glu	Ile	Ser	Pro	Ser	Ile	Ser	Ser	Ala	Ser	Val	Leu	Val
	195						200					205			
Ser	Thr	Leu	Ser	Thr	Ile	Ile	Val	Ser	Tyr	Ile	Tyr	Ile	Leu	His	Ser
	210					215					220				
Ile	Leu	Arg	Met	Arg	Ser	Ala	Glu	Gly	Arg	Asn	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Thr	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Phe	Tyr	Gly	Thr	Val	Leu
				245					250					255	
Phe	Val	Tyr	Val	Met	Pro	Lys	Ser	Ser	Tyr	Ser	Ala	Asp	Gln	Val	Lys
			260					265					270		
Val	Ala	Ser	Val	Val	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Glu	Ala	Met	Lys	Lys	Leu
	290					295					300				
Met	Ala	Arg	Thr	His	Trp	Phe	Pro								
305						310									

<210> 1501  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1501

Met Glu Thr Gln Asn His Thr Thr Val Thr Glu Phe Ile Leu Leu Gly  
 1 5 10 15  
 Leu Thr Glu Ser Ser Thr Leu Arg Val Ile Leu Phe Met Val Phe Leu  
 20 25 30  
 Gly Ile Tyr Thr Val Thr Leu Val Gly Asn Phe Ser Ile Ile Ser Leu  
 35 40 45  
 Ile Arg Ser Cys Pro Gln Leu His Thr Pro Met Tyr Leu Phe Leu Ser  
 50 55 60  
 His Leu Ala Phe Val Asp Ile Gly Phe Ser Thr Ser Ile Thr Pro Thr  
 65 70 75 80  
 Met Phe Lys Gly Phe Leu Gly Asn Arg Leu Val Leu Ser Val Ala Ala  
 85 90 95  
 Cys Ile Ala Gln Phe Cys Ile Thr Val Thr Phe Gly Thr Val Glu Cys  
 100 105 110  
 Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser  
 115 120 125  
 Pro Leu Leu Tyr Ser Thr His Met Ser Pro Arg Ile Cys Phe Leu Leu  
 130 135 140  
 Val Gly Ala Ser Tyr Val Gly Gly Cys Val Asn Ser Gly Ala Phe Thr  
 145 150 155 160  
 Ser Cys Leu Ser Ile Leu Ser Phe Cys Gly Pro Asn Gln Ile Asp His  
 165 170 175  
 Phe Phe Cys Asp Phe Pro Ala Val Leu Lys Leu Ser Cys Ser Asp Val  
 180 185 190  
 Ser Ile Ile Gly Ile Ile Pro Ser Ile Ser Ala Gly Ser Ile Ile Val  
 195 200 205  
 Ile Thr Val Phe Val Ile Ala Val Ser Tyr Ala Tyr Ile Leu Ile Thr  
 210 215 220  
 Ile Leu Lys Met Arg Ser Thr Glu Gly Arg Gln Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Thr Ser His Leu Thr Ala Val Thr Leu Tyr Tyr Gly Thr Ile Thr  
 245 250 255  
 Phe Ile Tyr Val Met Pro Lys Ser Asn Tyr Ser Thr Ala Gln Asn Lys  
 260 265 270  
 Ile Leu Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Arg Asp Val Lys Glu Ala Leu Arg Lys Ala  
 290 295 300  
 Ile Ile Arg Ile Phe Pro  
 305 310

<210> 1502  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1502  
 Met Ala Glu Gly Asn Gln Thr Val Ile Phe Gln Phe Leu Leu Leu Gly  
 1 5 10 15  
 Leu Pro Ile Pro Thr Glu His Gln Gln Leu Tyr Tyr Ala Leu Phe Leu  
 20 25 30  
 Leu Met Tyr Leu Thr Thr Val Leu Gly Asn Leu Ile Ile Ile Ile Leu  
 35 40 45  
 Ile Arg Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys

65					70					75				80
Leu	Leu	Gln	Asn	Met	Gln	Ser	Gln	Asp	Ser	Ser	Ile	Thr	Tyr	Ala Gly
				85					90					95
Cys	Leu	Thr	Gln	Met	Tyr	Phe	Phe	Leu	Leu	Phe	Gly	Asp	Leu	Glu Ser
			100					105					110	
Phe	Leu	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys Phe
		115					120					125		
Pro	Leu	His	Tyr	Met	Ser	Ile	Met	Ser	Pro	Ser	Leu	Cys	Val	Ser Leu
	130					135					140			
Val	Leu	Leu	Ser	Trp	Val	Leu	Thr	Thr	Phe	His	Ala	Met	Leu	His Thr
145					150					155				160
Leu	Leu	Met	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Asp	Asn	Val	Ile	Pro His
			165					170					175	
Phe	Phe	Cys	Asp	Met	Ser	Ala	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp Thr
			180					185					190	
His	Val	Asn	Glu	Leu	Val	Ile	Phe	Val	Thr	Gly	Gly	Leu	Ile	Leu Val
	195						200					205		
Ile	Pro	Phe	Val	Leu	Ile	Leu	Val	Ser	Tyr	Ala	Arg	Ile	Val	Ser Ser
	210					215				220				
Ile	Leu	Lys	Val	Pro	Ser	Ala	Arg	Gly	Ile	Arg	Lys	Ala	Phe	Ser Thr
225					230					235				240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile Ile
			245						250				255	
Gly	Leu	Tyr	Leu	Cys	Pro	Ser	Ala	Asp	Asn	Ser	Thr	Val	Lys	Glu Thr
			260					265					270	
Val	Met	Ala	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro Phe
		275					280					285		
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Met	Lys	Gly	Ala	Leu	Ala	Arg Val
	290				295					300				
Ile	Cys	Lys	Lys	Lys	Val	Phe	Phe	Cys	Leu					
305					310									

<210> 1503  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1503

Met	Gln	Gly	Thr	Thr	Glu	Arg	Asn	Gln	Thr	Ala	Ile	Ser	Gln	Phe	Leu
1				5					10					15	
Leu	Leu	Gly	Leu	Pro	Ile	Pro	Thr	Glu	His	Gln	His	Leu	Phe	Tyr	Ala
			20					25					30		
Leu	Phe	Leu	Ala	Met	Tyr	Leu	Thr	Val	Leu	Gly	Asn	Leu	Ile	Ile	
		35					40				45				
Ile	Ile	Leu	Ile	His	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Ser
	50					55					60				
Phe	Leu	Ser	Asn	Leu	Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr
65					70					75				80	
Met	Pro	Lys	Leu	Leu	Gln	Asn	Met	Gln	Ser	Gln	Asp	Pro	Ser	Ile	Pro
			85					90						95	
Tyr	Ala	Gly	Cys	Leu	Ala	Gln	Met	Tyr	Phe	Phe	Leu	Phe	Phe	Ala	Asp
			100				105						110		
Leu	Glu	Ser	Phe	Leu	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala
		115					120					125			
Ile	Cys	Phe	Pro	Leu	His	Tyr	Met	Ser	Ile	Met	Ser	Pro	Arg	Leu	Cys
	130						135					140			

Val	Ser	Leu	Val	Leu	Leu	Ser	Trp	Val	Leu	Thr	Thr	Phe	His	Ala	Met
145					150					155					160
Leu	His	Thr	Leu	Leu	Met	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Asp	Asn	Val
			165						170						175
Ile	Pro	His	Phe	Phe	Cys	Asp	Met	Ser	Ala	Leu	Leu	Lys	Leu	Ser	Cys
		180					185						190		
Ser	Asp	Thr	Tyr	Val	Asn	Glu	Leu	Val	Ile	Phe	Val	Met	Gly	Ser	Leu
	195					200						205			
Ile	Leu	Val	Ile	Pro	Phe	Val	Leu	Ile	Leu	Val	Ser	Tyr	Ala	Arg	Ile
210					215						220				
Val	Ser	Ser	Ile	Leu	Lys	Val	Pro	Ser	Ala	Arg	Gly	Ile	Arg	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly
			245						250					255	
Thr	Val	Ile	Gly	Leu	Tyr	Leu	Cys	Pro	Ser	Ala	Asp	Asn	Ser	Thr	Val
		260					265						270		
Lys	Glu	Thr	Val	Met	Ala	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu
	275					280						285			
Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Met	Lys	Gly	Ala	Leu
290					295					300					
Ile	Ser	Val	Leu	Cys	Lys	Lys	Lys	Ile	Leu	Phe	Cys	Leu			
305					310					315					

<210> 1504  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1504

Met	Thr	Glu	Arg	Asn	Lys	Thr	Val	Ile	Ser	Gln	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Leu	Pro	Ile	Pro	Pro	Glu	His	Gln	Gln	Leu	Phe	Tyr	Ala	Leu	Phe	Leu
			20					25					30		
Val	Met	Tyr	Leu	Thr	Thr	Val	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Ile	Leu
	35					40						45			
Ile	Ile	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50				55					60					
Asn	Leu	Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys
65					70				75						80
Leu	Leu	Gln	Asn	Met	Gln	Ser	Gln	Val	Pro	Ser	Ile	Pro	Tyr	Ala	Gly
			85					90						95	
Cys	Leu	Ala	Gln	Ile	Tyr	Phe	Phe	Leu	Phe	Phe	Gly	Asp	Leu	Gly	Asn
		100						105					110		
Phe	Leu	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Tyr
	115					120						125			
Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	Ser	Pro	Arg	Leu	Cys	Val	Ser	Leu
	130					135					140				
Val	Val	Leu	Ser	Trp	Val	Leu	Thr	Thr	Phe	His	Ala	Met	Leu	His	Thr
145					150				155						160
Leu	Leu	Met	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Asp	Asn	Val	Ile	Pro	His
			165					170						175	
Tyr	Phe	Cys	Asp	Met	Ser	Ala	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr
		180					185					190			
Arg	Val	Asn	Glu	Val	Val	Ile	Phe	Ile	Val	Ala	Ser	Ile	Phe	Leu	Val
	195					200						205			
Leu	Pro	Phe	Ala	Leu	Ile	Thr	Met	Ser	Tyr	Val	Arg	Ile	Val	Ser	Ser

210		215		220
Ile Leu Lys Val Pro Ser Ser Gln Gly Ile Tyr Lys Ala Phe Ser Thr				
225		230		240
Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Val Ile				
	245		250	255
Gly Leu Tyr Leu Ser Pro Ser Ser Asn Asn Ser Thr Val Lys Asp Thr				
	260		265	270
Val Met Ser Leu Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe				
	275		280	285
Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Gly Ala Leu Glu Arg Val				
	290		295	300
Phe Cys Lys Arg Lys Ile Gln Leu Asn Leu				
305		310		

<210> 1505  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1505

Met Pro Gly Glu Asn Val Thr Val Trp Ser Leu Phe Phe Leu Glu Gly		
1	5	10
Phe Ser Arg Tyr Pro Arg Leu Glu Ile Val Leu Phe Val Phe Ser Leu		
	20	25
Val Met Tyr Leu Val Thr Ile Leu Gly Asn Cys Thr Leu Ile Leu Ile		
	35	40
Thr Val Leu Asp Ser Arg Leu Gln Thr Pro Met Tyr Leu Phe Leu Gly		
	50	55
Asn Leu Ser Phe Met Asp Ile Cys Tyr Thr Ser Ala Ser Ile Pro Thr		
	65	70
Leu Leu Val Asn Leu Leu Ser Ser Lys Lys Thr Ile Ile Phe Ser Gly		
	85	90
Cys Ala Val Gln Met Tyr Leu Ser Leu Ser Met Gly Ser Thr Glu Cys		
	100	105
Ile Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn		
	115	120
Pro Leu Arg Tyr Pro Ile Ile Met Asn Arg Gln Val Cys Val Gln Met		
	130	135
Ala Thr Ile Ser Trp Val Thr Gly Cys Leu Thr Ala Leu Leu Glu Thr		
	145	150
Ser Phe Ala Leu Gln Ile Pro Leu Cys Gly Asn Ile Ile Asn His Phe		
	165	170
Thr Cys Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Val Ser Ser Leu		
	180	185
Leu Met Asp Leu Val Met Leu Val Val Ser Ile Leu Leu Leu Pro Ile		
	195	200
Pro Met Leu Leu Ile Cys Ile Ser Tyr Gly Phe Ile Leu Ser Thr Ile		
	210	215
Leu Arg Ile Ser Ser Thr Glu Gly Arg Asn Lys Ala Phe Ser Thr Cys		
	225	230
Gly Ala His Leu Thr Val Val Ile Leu Tyr Tyr Gly Ala Ala Leu Ser		
	245	250
Met Tyr Leu Lys Pro Ser Ser Ser Asn Ser Gln Glu Ile Asp Lys Ile		
	260	265
Ile Ser Leu Leu Tyr Gly Val Leu Thr Pro Met Leu Asn Pro Ile Ile		
	275	280
		285

Tyr Ser Leu Arg Asn Lys Glu Val Lys Asp Ala Val Ile Lys Leu Leu  
 290 295 300  
 Gly Lys Val Pro Leu Ala Pro Ser Val  
 305 310

<210> 1506  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1506  
 Met Pro Asn Ser Ile Gln Leu Arg Glu Lys Arg Met Asn Val Thr Glu  
 1 5 10 15  
 Phe Ile Leu Met Gly Leu Thr Gln Asn Pro Gln Leu Gln Arg Ile Leu  
 20 25 30  
 Phe Phe Val Leu Leu Ile Thr Tyr Ile Ile Thr Val Thr Gly Asn Leu  
 35 40 45  
 Leu Ile Val Gly Thr Ile Val Cys Ser Gln Ser Leu Asn Ser Pro Met  
 50 55 60  
 Tyr Phe Phe Leu Thr Phe Leu Ser Leu Ile Asp Ala Cys Tyr Ser Ser  
 65 70 75 80  
 Cys Thr Ile Pro Lys Met Leu Val Asp Leu Leu Ser Glu Thr Lys Thr  
 85 90 95  
 Ile Ser Phe Asn Gly Cys Ile Leu Gln Leu Phe Val Glu His Phe Leu  
 100 105 110  
 Gly Ala Ser Glu Ile Val Leu Leu Val Val Met Ala Tyr Asp Arg Tyr  
 115 120 125  
 Val Ala Ile Cys Arg Pro Leu His Tyr Ala Ser Arg Met Asn His His  
 130 135 140  
 Met Cys Cys Leu Leu Val Gly Ile Cys Trp Ile Val Gly Phe Leu His  
 145 150 155 160  
 Ser Phe Gly Gln Ile Leu Val Thr Leu Trp Ile Pro Phe Cys Gly Pro  
 165 170 175  
 Asn Ile Leu Asp His Phe Phe Cys Asp Ile Phe Pro Leu Leu Gln Leu  
 180 185 190  
 Ala Cys Thr Asp Thr Phe Leu Leu Gly Leu Leu Val Ala Cys Asn Gly  
 195 200 205  
 Gly Val Ile Pro Val Ile Thr Phe Thr Met Leu Leu Met Ser Tyr Ala  
 210 215 220  
 Val Ile Leu Tyr Ser Leu Arg Thr His Ser Thr Ala Gly Arg Lys Lys  
 225 230 235 240  
 Ala Leu Ser Thr Cys Gly Ser His Ile Thr Val Val Val Leu Phe Phe  
 245 250 255  
 Val Pro Cys Ile Phe Met Tyr Met Arg Pro Val Ala Thr Phe Pro Met  
 260 265 270  
 Asp Lys Ala Ile Ala Val Phe Tyr Ile Ile Ile Thr Pro Leu Leu Asn  
 275 280 285  
 Pro Val Ile Tyr Thr Val Arg Asn Ala Glu Val Lys Ser Ala Ile Arg  
 290 295 300  
 Met Leu Leu Lys Arg Met His Leu  
 305 310

<210> 1507  
 <211> 309  
 <212> PRT

<213> Mus musculus

<400> 1507

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Met Gly Asn Val Thr Val Phe Ile Leu Leu Gly Leu Ser Asp Asn Gln
 1           5           10           15
Asn Ile Glu Val Leu Cys Phe Val Leu Phe Leu Phe Cys Tyr Ile Ala
      20           25           30
Ile Trp Met Gly Asn Val Leu Ile Met Val Ser Ile Thr Cys Thr Gln
      35           40           45
Leu Met Asp Gln Pro Met Tyr Phe Phe Leu His Tyr Leu Ser Leu Cys
      50           55           60
Asp Leu Cys Tyr Thr Ser Thr Val Thr Pro Lys Leu Leu Thr Asp Leu
      65           70           75           80
Leu Ala Glu Arg Lys Ile Ile Ser Tyr Asn Asn Cys Met Thr Gln Leu
      85           90           95
Phe Val Leu His Phe Leu Gly Ala Ile Glu Ile Phe Ile Leu Thr Ala
      100          105          110
Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Arg Pro Leu His Tyr Thr
      115          120          125
Val Ile Met Ser Arg Gln Arg Cys Asn Glu Ile Leu Ala Ala Cys Cys
      130          135          140
Thr Gly Gly Phe Val His Ser Ala Ser Gln Ser Leu Leu Ile Ala Cys
      145          150          155          160
Leu Ser Phe Cys His His Asn Glu Ile Asp His Tyr Phe Cys Asp Val
      165          170          175
Tyr Pro Leu Leu Lys Leu Ala Cys Thr Asp Thr His Arg Ile Gly Leu
      180          185          190
Phe Val Ile Val Asp Ser Gly Leu Ile Ala Leu Val Thr Phe Val Val
      195          200          205
Leu Met Val Ser Tyr Phe Leu Ile Ala Tyr Thr Ile Ser Val Tyr Pro
      210          215          220
Ala Glu Ser Arg Ser Lys Ala Leu Ser Thr Cys Ser Ser His Ile Thr
      225          230          235          240
Ile Val Val Leu Phe Phe Val Pro Val Phe Phe Ile Tyr Ile Arg Pro
      245          250          255
Asn Ile Thr Phe Pro Glu Asp Lys Val Phe Ala Leu Phe Tyr Thr Ile
      260          265          270
Ile Ala Pro Met Phe Asn Pro Leu Ile Tyr Thr Leu Arg Asn Ile Glu
      275          280          285
Met Lys Arg Ala Ile Lys Lys Met Trp Tyr His Gln Ile Pro Ser Tyr
      290          295          300
Lys Lys Gln Ile Pro
      305
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<210> 1508

<211> 307

<212> PRT

<213> Mus musculus

<400> 1508

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Met Glu Ser Thr Asn Asn Ile Thr Glu Phe Ile Leu Leu Gly Leu Ser
 1           5           10           15
Gln Asn Lys Lys Ile Lys Ala Leu Cys Phe Leu Met Phe Leu Phe Cys
      20           25           30
Tyr Ile Ala Ile Leu Gly Gly Asn Met Ile Ile Leu Ile Ser Ile Thr
      35           40           45
```



Cys Ser Gln Leu Ile Glu Gln Pro Met Tyr Phe Phe Leu Asn Tyr Leu  
 50 55 60  
 Ala Leu Ser Asp Leu Cys Tyr Thr Ser Thr Val Thr Pro Lys Phe Leu  
 65 70 75 80  
 Thr Asp Leu Leu Val Glu Arg Asn Lys Ile Ser Tyr Thr Ser Cys Met  
 85 90 95  
 Ala Gln Leu Phe Thr Met His Phe Phe Gly Gly Ile Glu Ile Leu Ile  
 100 105 110  
 Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu  
 115 120 125  
 His Tyr Ser Ile Ile Met Ser Arg Gly Arg Cys His Ala Met Val Thr  
 130 135 140  
 Ala Cys Cys Ala Gly Ala Phe Ile His Ser Phe Leu Gln Ser Leu Leu  
 145 150 155 160  
 Ala Ile Ser Leu Pro Phe Cys Gly His Asn Glu Met Asp His Tyr Phe  
 165 170 175  
 Cys Asp Ile Tyr Pro Leu Val Thr Leu Ser Cys Thr Asn Thr His Arg  
 180 185 190  
 Val Gly Leu Leu Val Val Val Asn Ser Gly Met Met Gly Leu Val Thr  
 195 200 205  
 Phe Val Val Leu Met Trp Ser Tyr Ser Phe Ile Leu Tyr Thr Ile Arg  
 210 215 220  
 Ala Tyr Pro Ala Glu Ser Arg Ser Lys Ala Leu Ser Thr Cys Ser Ser  
 225 230 235 240  
 His Val Thr Val Val Ile Phe Phe Phe Val Pro Val Leu Phe Ile Tyr  
 245 250 255  
 Ile Arg Pro Ala Thr Thr Tyr Pro Glu Asp Lys Val Phe Ala Leu Phe  
 260 265 270  
 Tyr Thr Ile Leu Ala Pro Met Phe Asn Pro Leu Ile Tyr Thr Leu Arg  
 275 280 285  
 Asn Thr Glu Met Lys Asn Ala Leu Arg Lys Val Trp Cys His Lys Leu  
 290 295 300  
 Phe Phe Ile  
 305

<210> 1509  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1509  
 Met Glu Arg Ser Leu Gln Leu Ala Asn Arg Ser Asp Asp Gln Asp Phe  
 1 5 10 15  
 Ile Leu Leu Gly Leu Ser Ala Ser Lys Asp Ile Lys Asp Gly Leu Phe  
 20 25 30  
 Val Ile Phe Leu Thr Leu Tyr Leu Leu Ile Phe Leu Glu Asn Met Leu  
 35 40 45  
 Val Ile Tyr Leu Ile Ser Ser His His Glu Leu Leu His Lys Pro Met  
 50 55 60  
 Tyr Phe Phe Leu Gly Asn Leu Ser Cys Leu Glu Met Cys Tyr Val Ser  
 65 70 75 80  
 Val Thr Met Pro Thr Leu Leu Val Gly Leu Arg Ser Ser Pro Tyr His  
 85 90 95  
 Val Ser Phe Ser Phe Cys Met Ala Gln Leu Phe Leu Phe Met Ser Leu  
 100 105 110  
 Ile Gly Thr Lys Cys Thr Leu Leu Ala Ser Met Ala Tyr Asp Arg Tyr



Cys	Thr	His	Val	Ala	Leu	Thr	Glu	Leu	Val	Asp	Phe	Ile	Ser	Ala	Ile
		195					200					205			
Val	Ile	Leu	Trp	Gly	Ser	Leu	Leu	Val	Ala	Met	Ala	Ser	Tyr	Val	Ala
	210					215					220				
Ile	Gly	Arg	Thr	Val	Leu	Gly	Met	Pro	Ser	Ala	Ala	Ala	Arg	His	Lys
225					230					235					240
Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Val	Val	Gly	Ile	Phe	Tyr	
				245					250					255	
Ser	Ala	Thr	Ile	Phe	Ile	Tyr	Ala	Arg	Pro	Ser	Arg	Ile	Glu	Ala	Met
			260					265					270		
Asp	Leu	Asn	Lys	Val	Leu	Ser	Val	Ile	Tyr	Thr	Val	Val	Thr	Pro	Met
		275					280					285			
Cys	Asn	Pro	Val	Ile	Tyr	Cys	Leu	Arg	Asn	Arg	Glu	Val	Gln	Ser	Ala
	290					295					300				
Phe	His	Arg	Thr	Met	Arg	Trp	Ser	Ser	Val						
305						310									

<210> 1511  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1511

Met	Glu	Arg	Ser	Leu	Ala	Leu	Ala	Asn	Met	Thr	Arg	Val	Gln	Gln	Phe
1				5					10					15	
Ile	Leu	Leu	Gly	Leu	Ser	Thr	Arg	Leu	Asp	Ile	Arg	Asp	Ala	Leu	Phe
			20					25					30		
Ala	Val	Phe	Leu	Thr	Leu	Tyr	Leu	Leu	Thr	Leu	Leu	Glu	Asn	Thr	Leu
		35					40					45			
Ile	Ile	Tyr	Leu	Ile	Cys	Ser	His	Lys	Glu	Leu	His	Lys	Pro	Met	Tyr
	50				55						60				
Phe	Phe	Leu	Gly	Asn	Leu	Ser	Cys	Leu	Glu	Met	Cys	Tyr	Val	Ser	Val
65				70					75					80	
Thr	Met	Pro	Thr	Leu	Leu	Met	Gly	Leu	Trp	Asn	Gly	Leu	Tyr	His	Ile
			85					90						95	
Pro	Phe	Ile	Ala	Cys	Met	Thr	Gln	Leu	Phe	Phe	Phe	Ile	Val	Leu	Val
			100					105					110		
Gly	Thr	Glu	Cys	Ile	Leu	Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val
	115						120					125			
Ala	Ile	Cys	Arg	Pro	Leu	His	Tyr	Pro	Val	Leu	Met	Arg	Pro	Gln	Val
	130					135					140				
Cys	Leu	Gly	Leu	Ala	Met	Ile	Ser	Trp	Leu	Gly	Gly	Leu	Leu	Val	Ser
145				150					155					160	
Met	Ile	Lys	Thr	Thr	Cys	Ile	Ala	Thr	Leu	Ser	Tyr	Cys	Gly	Pro	Asn
			165					170						175	
Val	Leu	Asn	His	Phe	Phe	Cys	Asp	Val	Ser	Pro	Leu	Leu	Asn	Leu	Ser
		180						185					190		
Cys	Thr	His	Val	Ala	Leu	Thr	Glu	Leu	Val	Asp	Phe	Ile	Ser	Ala	Ile
		195					200					205			
Val	Ile	Leu	Trp	Gly	Cys	Phe	Leu	Thr	Thr	Met	Ala	Ser	Tyr	Val	Ala
	210					215					220				
Ile	Gly	Arg	Ala	Val	Leu	Arg	Met	Pro	Ser	Thr	Thr	Ala	Arg	Tyr	Lys
225					230					235					240
Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Val	Val	Val	Gly	Ile	Phe	Tyr
				245					250					255	
Ser	Val	Thr	Ile	Phe	Ile	Tyr	Ala	Arg	Pro	Lys	Arg	Ile	Glu	Ala	Met



<210> 1513  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1513  
 Met Met Arg Asn Gln Thr Leu Val Thr Glu Phe Ile Leu Gln Gly Phe  
 1 5 10 15  
 Ser Glu His Pro Gln Tyr Gln Leu Pro Leu Phe Phe Cys Phe Leu Ser  
 20 25 30  
 Leu Tyr Cys Val Ala Leu Thr Gly Asn Val Leu Ile Ile Leu Ala Ile  
 35 40 45  
 Thr Cys Asn Pro Gly Leu His Thr Pro Met Tyr Phe Phe Leu Phe Asn  
 50 55 60  
 Leu Ala Thr Met Asp Ile Ile Cys Thr Ser Ser Ile Met Pro Lys Ala  
 65 70 75 80  
 Leu Arg Gly Leu Val Ser Lys Arg Asn Pro Ile Ser Tyr Gly Gly Cys  
 85 90 95  
 Met Ala Gln Leu Tyr Phe Leu Thr Trp Ser Ala Ser Ser Glu Leu Leu  
 100 105 110  
 Leu Leu Thr Val Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys His Pro  
 115 120 125  
 Leu His Tyr Ser Thr Met Met Ser Lys Ala Phe Cys Ser Met Leu Ala  
 130 135 140  
 Ala Gly Val Trp Ala Leu Cys Ala Phe Asn Thr Ala Ile His Thr Gly  
 145 150 155 160  
 Leu Met Thr Arg Leu Ser Phe Cys Gly Pro Asn Val Ile Thr His Phe  
 165 170 175  
 Phe Cys Glu Val Pro Pro Leu Leu Leu Ser Cys Ser Ser Thr Tyr  
 180 185 190  
 Val Asn Ser Val Met Ile Val Leu Ala Asp Ala Phe Tyr Gly Ile Leu  
 195 200 205  
 Asn Phe Leu Met Thr Ile Val Ser Tyr Gly Phe Ile Ile Ser Ser Ile  
 210 215 220  
 Leu Lys Met Arg Thr Ser Glu Gly Lys Gln Lys Ala Phe Ser Thr Cys  
 225 230 235 240  
 Ser Ser His Leu Ile Val Val Cys Met Tyr Tyr Thr Ala Val Phe Tyr  
 245 250 255  
 Ala Tyr Ile Ser Pro Val Ser Ser Tyr Asn Ala Glu Lys Ser Lys Leu  
 260 265 270  
 Ala Gly Val Leu Tyr Thr Met Leu Ser Pro Thr Leu Asn Pro Leu Ile  
 275 280 285  
 Tyr Thr Leu Arg Asn Lys Glu Val Lys Ala Ala Leu Arg Lys Phe Phe  
 290 295 300  
 Pro Phe Leu Arg Asn  
 305

<210> 1514  
 <211> 307  
 <212> PRT  
 <213> Mus musculus

<400> 1514  
 Met Asp Gly Asp Asn Glu Thr Met Val Ala Glu Phe Leu Leu Leu Gly  
 1 5 10 15  
 Leu Ser Gly Lys Ser Glu Gln Glu Glu Val Val Phe Gly Met Phe Leu



Cys	Met	Thr	Gln	Ile	Tyr	Phe	Phe	Ile	Thr	Phe	Ile	Asn	Met	Asp	Gly
			100					105				110			
Phe	Leu	Leu	Ser	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
			115					120				125			
Pro	Leu	His	Tyr	Thr	Met	Met	Met	Arg	Pro	Arg	Leu	Cys	Val	Leu	Leu
			130				135				140				
Val	Ala	Ile	Ser	Trp	Ala	Ile	Thr	Asn	Leu	His	Ala	Leu	Leu	His	Thr
145					150					155					160
Leu	Leu	Met	Val	Arg	Leu	Thr	Phe	Cys	Ser	His	Asn	Ala	Met	His	His
				165					170					175	
Phe	Phe	Cys	Asp	Pro	Tyr	Pro	Ile	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Thr
			180					185					190		
Phe	Ile	Asn	Asp	Ile	Thr	Ala	Phe	Thr	Val	Gly	Gly	Leu	Thr	Ser	Ile
		195					200					205			
Thr	Pro	Phe	Thr	Cys	Ile	Thr	Val	Ser	Tyr	Gly	Tyr	Ile	Leu	Ser	Asn
	210					215					220				
Val	Leu	Lys	Phe	Pro	Ser	Ile	Gln	Gly	Ile	Arg	Lys	Ala	Leu	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Thr	Val	Val	Ser	Leu	Phe	Tyr	Gly	Ala	Ile	Leu
				245					250					255	
Gly	Val	Tyr	Met	His	Pro	Ser	Ser	Thr	Tyr	Ser	Val	Gln	Asp	Met	Val
			260					265					270		
Ala	Thr	Ala	Phe	Phe	Thr	Val	Val	Thr	Pro	Met	Val	Asn	Pro	Phe	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Val	Lys	Gly	Ala	Leu	Arg	Lys	Leu	Met
	290					295					300				
Cys	Arg	Arg	Leu	Thr	Ser	Ser	Arg	Phe	Tyr	Asn					
305					310					315					

<210> 1516  
 <211> 307  
 <212> PRT  
 <213> Mus musculus

<400> 1516

Met	Asp	Gly	Asp	Asn	Gln	Thr	Ile	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10				15		
Leu	Thr	Arg	Gln	Ser	Glu	Lys	Glu	Glu	Val	Val	Phe	Gly	Leu	Phe	Leu
			20				25						30		
Trp	Met	Tyr	Leu	Val	Thr	Ile	Ser	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Ala
	35					40						45			
Ile	Ser	Cys	Asp	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala
	50					55				60					
Asn	Leu	Ser	Ser	Val	Asp	Ile	Ser	Ala	Pro	Ser	Val	Ile	Val	Pro	Lys
65					70					75					80
Ala	Leu	Val	Asn	His	Met	Leu	Gly	Ser	Lys	Ser	Ile	Ser	Tyr	Thr	Gly
			85						90					95	
Cys	Met	Thr	Gln	Ile	Tyr	Phe	Phe	Ile	Thr	Phe	Ser	Asn	Met	Asp	Gly
			100					105					110		
Phe	Leu	Leu	Ser	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
			115					120				125			
Pro	Leu	His	Tyr	Thr	Met	Met	Met	Arg	Pro	Arg	Leu	Cys	Val	Leu	Leu
			130				135				140				
Val	Ala	Ile	Ser	Trp	Ala	Ile	Thr	Asn	Leu	His	Ala	Leu	Leu	His	Thr
145					150					155					160
Leu	Leu	Met	Val	Arg	Leu	Thr	Phe	Cys	Ser	His	Asn	Ala	Val	His	His

				165					170					175			
Phe	Phe	Cys	Asp	Pro	Tyr	Pro	Ile	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Thr		
			180					185					190				
Phe	Ile	Asn	Asp	Leu	Met	Val	Phe	Thr	Ile	Gly	Gly	Leu	Val	Phe	Met		
		195					200					205					
Thr	Pro	Phe	Thr	Cys	Ile	Ile	Val	Ser	Tyr	Ala	Tyr	Ile	Phe	Ser	Lys		
	210				215						220						
Val	Leu	Lys	Leu	Lys	Ser	Ala	His	Gly	Ile	Arg	Lys	Ala	Leu	Ser	Thr		
225					230					235					240		
Cys	Gly	Ser	His	Leu	Thr	Val	Val	Ser	Leu	Phe	Tyr	Gly	Ala	Ile	Leu		
			245						250					255			
Gly	Ile	Tyr	Met	His	Pro	Ser	Ser	Thr	Tyr	Thr	Val	Gln	Asp	Thr	Val		
		260						265					270				
Ala	Thr	Val	Ile	Phe	Thr	Val	Val	Thr	Pro	Met	Val	Asn	Pro	Phe	Ile		
	275						280					285					
Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Ile	Lys	Gly	Ala	Leu	Arg	Lys	Ile	Ile		
	290					295					300						
Leu	Arg	Ser															
305																	

<210> 1517  
 <211> 305  
 <212> PRT  
 <213> Mus musculus

<400> 1517																	
Met	Glu	Glu	Ala	Asn	Gln	Thr	Val	Val	Ser	Glu	Phe	Ile	Phe	Gln	Gly		
1				5				10						15			
Leu	Cys	Ala	Ser	Lys	Glu	Leu	Gln	Ile	Leu	Leu	Leu	Leu	Pro	Phe	Ser		
		20					25						30				
Thr	Leu	Tyr	Met	Met	Thr	Val	Val	Gly	Asn	Leu	Phe	Val	Val	Ile	Leu		
	35				40						45						
Ile	Ile	Ile	Asp	His	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ala		
	50				55					60							
Asn	Leu	Ser	Phe	Ile	Asp	Phe	Cys	Leu	Ser	Ser	Val	Thr	Thr	Pro	Lys		
65				70					75					80			
Leu	Ile	Thr	Asp	Leu	Leu	Lys	Asp	Asn	Lys	Thr	Ile	Ser	Phe	Gly	Gly		
			85					90						95			
Cys	Met	Ser	Gln	Ile	Leu	Cys	Val	His	Phe	Phe	Gly	Gly	Gly	Glu	Met		
		100					105						110				
Val	Leu	Leu	Val	Thr	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg		
	115					120					125						
Pro	Leu	His	Tyr	Ser	Ser	Ile	Met	Asp	Arg	Gln	Lys	Cys	Ile	Trp	Leu		
	130				135					140							
Val	Val	Ile	Ser	Trp	Thr	Ile	Gly	Phe	Ile	His	Ala	Met	Ser	Gln	Leu		
145				150					155					160			
Ile	Leu	Ile	Leu	Asp	Leu	Pro	Phe	Cys	Gly	Pro	Arg	Val	Ile	Asp	Ser		
			165					170					175				
Phe	Phe	Cys	Asp	Ile	Pro	Leu	Val	Met	Lys	Leu	Ala	Cys	Met	Asn	Thr		
		180					185						190				
Asp	Thr	Leu	Gly	Ile	Val	Ile	Asn	Ala	Asp	Ser	Gly	Val	Leu	Ala	Thr		
	195				200						205						
Thr	Cys	Phe	Ile	Leu	Leu	Leu	Ile	Ser	Tyr	Thr	Tyr	Ile	Leu	Leu	Thr		
	210				215						220						
Val	Gln	Leu	His	Ser	Lys	Asp	Gly	Ser	Ser	Lys	Ala	Leu	Ser	Thr	Cys		
225				230						235					240		



Thr	Ser	His	Ile	Ile	Val	Val	Val	Leu	Phe	Phe	Gly	Pro	Cys	Ile	Phe	
				245					250					255		
Ile	Tyr	Leu	Trp	Pro	Val	Ser	Ile	Thr	Trp	Val	Asp	Lys	Phe	Leu	Ala	
			260					265					270			
Val	Phe	Tyr	Thr	Val	Ile	Thr	Pro	Leu	Leu	Asn	Pro	Ala	Ile	Tyr	Thr	
		275					280					285				
Leu	Arg	Asn	Lys	Asp	Ile	Lys	Asn	Ala	Ile	Lys	Lys	Leu	Lys	Asn	His	
	290					295					300					
Met																
305																

<210> 1518  
 <211> 305  
 <212> PRT  
 <213> Mus musculus

<400> 1518

Met	Glu	Asp	Ser	Asn	Arg	Thr	Val	Ser	Ser	Glu	Phe	Ile	Phe	Gln	Gly	
1				5					10					15		
Leu	Cys	Ser	Ser	Arg	Gln	Leu	Glu	Ile	Phe	Leu	Leu	Leu	Pro	Phe	Ser	
			20					25					30			
Ile	Leu	Tyr	Leu	Met	Ala	Val	Val	Gly	Asn	Leu	Phe	Val	Val	Ile	Leu	
		35					40					45				
Ile	Ile	Ile	Asp	His	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ala	
	50					55					60					
Asn	Leu	Ser	Phe	Ile	Asp	Phe	Cys	Leu	Ser	Ser	Val	Thr	Thr	Pro	Lys	
65					70					75					80	
Leu	Thr	Ile	Asp	Leu	Leu	Lys	Glu	Asn	Lys	Thr	Ile	Ser	Phe	Val	Gly	
				85					90					95		
Tyr	Met	Arg	Gln	Ile	Val	Cys	Val	His	Phe	Phe	Ala	Gly	Gly	Glu	Met	
			100					105					110			
Val	Leu	Leu	Val	Thr	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg	
		115				120						125				
Pro	Leu	His	Tyr	Ser	Ser	Ile	Met	Asp	Arg	Gln	Lys	Cys	Ile	Trp	Leu	
	130					135					140					
Val	Val	Ile	Ser	Trp	Ile	Val	Gly	Phe	Val	His	Ala	Ile	Ser	Gln	Met	
145					150					155					160	
Leu	Leu	Ile	Leu	Asp	Leu	Pro	Phe	Cys	Gly	Pro	Arg	Val	Ile	Asp	Ser	
				165					170					175		
Phe	Phe	Cys	Asp	Ile	Pro	Leu	Val	Met	Lys	Leu	Ala	Cys	Met	Asn	Thr	
		180						185					190			
Asp	Thr	Leu	Glu	Ile	Leu	Ile	Asn	Ala	Asp	Ser	Gly	Ile	Leu	Ala	Thr	
		195					200					205				
Thr	Trp	Phe	Ile	Leu	Leu	Leu	Ile	Ser	Tyr	Thr	Tyr	Ile	Leu	Leu	Thr	
	210					215					220					
Val	Gln	His	Arg	Ser	Lys	Asp	Gly	Ser	Ser	Lys	Ala	Leu	Ser	Thr	Cys	
225					230					235					240	
Thr	Ser	His	Ile	Ile	Val	Val	Leu	Leu	Phe	Phe	Gly	Pro	Ile	Ile	Phe	
				245					250					255		
Ile	Tyr	Leu	Trp	Pro	Val	Ser	Ile	Thr	Trp	Val	Asp	Lys	Phe	Leu	Ala	
			260					265					270			
Val	Phe	Tyr	Ser	Val	Ile	Thr	Pro	Leu	Leu	Asn	Pro	Ala	Ile	Tyr	Thr	
		275					280					285				
Leu	Arg	Asn	Lys	Asp	Ile	Lys	Asn	Ala	Ile	Lys	Lys	Leu	Ile	Ser	His	
	290					295					300					

Lys

305

<210> 1519  
<211> 305  
<212> PRT  
<213> Mus musculus

<400> 1519  
Met Glu Leu Glu Asn Gln Thr Arg Val Ile Glu Phe Phe Leu Leu Gly  
1 5 10 15  
Leu Ser Glu Asp Pro Glu Leu Gln Pro Ile Leu Phe Gly Leu Phe Leu  
20 25 30  
Leu Met Tyr Leu Val Thr Val Ser Gly Asn Leu Leu Ile Ile Leu Ala  
35 40 45  
Ile Val Ser Asp Ala His Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
50 55 60  
Asn Leu Ser Phe Thr Asp Ile Cys Phe Ser Thr Thr Thr Val Pro Lys  
65 70 75 80  
Met Leu Thr Asn Leu Gln Lys Gln Ser Lys Ser Ile Ser Tyr Thr Gly  
85 90 95  
Cys Ile Thr Gln Leu Ser Phe Val Leu Leu Phe Ala Gly Met Glu Asn  
100 105 110  
Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn  
115 120 125  
Pro Leu Arg Tyr Thr Asp Ile Met Lys Leu His Leu Cys Phe Val Met  
130 135 140  
Ile Phe Leu Ser Leu Tyr Ile Ser Ile Val Asp Ala Leu Leu His Gly  
145 150 155 160  
Leu Met Thr Leu Arg Leu Ser Phe Cys Thr Phe Leu Glu Ile Pro His  
165 170 175  
Phe Phe Cys Glu Leu Tyr Gln Val Ile Lys Ile Ala Cys Ser Asp Thr  
180 185 190  
Leu Ile Asn Asn Ile Leu Ile Tyr Val Met Ser Ser Ala Leu Gly Gly  
195 200 205  
Met Pro Leu Val Gly Ile Ile Phe Ser Tyr Tyr Lys Ile Ile Ser Ser  
210 215 220  
Ile Leu Arg Met Pro Ser Pro Gly Gly Arg His Lys Ala Phe Ser Thr  
225 230 235 240  
Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Ala Phe  
245 250 255  
Gly Val Tyr Ile Ser Ser Ala Phe Thr Glu Ser Tyr Arg Arg Thr Ser  
260 265 270  
Val Ala Ser Leu Met Tyr Thr Val Phe Pro Pro Met Leu Asn Pro Phe  
275 280 285  
Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Lys Ala Leu Arg Lys Ile  
290 295 300  
Val  
305

<210> 1520  
<211> 312  
<212> PRT  
<213> Mus musculus

<400> 1520

Met	Glu	Ser	Ala	Asn	Gln	Thr	Gly	Ile	Ser	Glu	Phe	Phe	Leu	Ile	Gly
1				5					10					15	
Leu	Ile	Tyr	Val	Pro	Glu	Leu	Gln	Pro	Leu	Phe	Phe	Asp	Leu	Phe	Leu
			20					25					30		
Ser	Met	Tyr	Leu	Ile	Thr	Ile	Ile	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Ala
		35					40					45			
Val	Ser	Lys	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Cys
	50					55					60				
Asn	Leu	Ser	Phe	Thr	Asp	Ile	Cys	Thr	Ser	Thr	Thr	Thr	Val	Pro	Lys
65					70					75					80
Leu	Leu	Leu	Asn	Ile	Gln	Val	His	Asp	Gln	Ser	Ile	Thr	Tyr	Ile	Gly
			85						90					95	
Cys	Leu	Ser	Gln	Val	Cys	Phe	Ile	Leu	Thr	Phe	Cys	Val	Leu	Glu	Arg
			100						105				110		
Cys	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Gln
		115						120				125			
Pro	Leu	Arg	Tyr	Thr	Ile	Ile	Met	Asn	Pro	Phe	Leu	Cys	Ile	Cys	Leu
		130					135					140			
Val	Leu	Leu	Ser	Leu	Ile	Ile	Ser	Thr	Ile	Asn	Ala	Leu	Leu	His	Thr
145					150					155					160
Leu	Leu	Val	Leu	Pro	Leu	Ser	Phe	Cys	Thr	Glu	Gln	Asn	Val	Pro	Asn
			165						170					175	
Phe	Phe	Cys	Glu	Leu	Gly	Gln	Ile	Thr	Lys	Leu	Ser	Cys	Ser	Asp	Thr
			180					185					190		
Phe	Ile	Asn	Ile	Leu	Phe	Ile	Tyr	Thr	Ala	Thr	Ile	Val	Phe	Ser	Val
		195					200					205			
Ile	Pro	Leu	Ser	Gly	Ile	Ile	Phe	Ser	Tyr	Ile	Gln	Ile	Val	Ser	Ser
		210				215					220				
Ile	Leu	Lys	Ile	Pro	Ser	Val	Gly	Gly	Arg	His	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Gly	Leu
			245						250					255	
Gly	Val	Tyr	Met	Asn	Ala	Ser	Val	Ser	Asn	Ser	Ser	Ile	Ser	Asn	Val
			260					265					270		
Ile	Thr	Ser	Met	Met	Tyr	Ser	Val	Val	Pro	Gln	Met	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Ser	Lys	Glu	Ile	Lys	Gly	Ser	Leu	Arg	Gln	Leu
	290					295					300				
Ile	Ile	Gly	Ile	Ile	Cys	Phe	Pro								
305					310										

<210> 1521  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1521  

Met	Lys	Pro	Glu	Asn	Gln	Thr	Asn	Ile	Leu	Glu	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Gln	Tyr	Pro	Glu	His	Gln	Pro	Met	Leu	Phe	Gly	Leu	Phe	Leu
			20					25					30		
Leu	Met	Phe	Val	Val	Ala	Val	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Ala
		35					40					45			
Val	Ser	Ile	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Ser	Asp	Ile	Gly	Phe	Ile	Ser	Thr	Thr	Val	Pro	Lys

65					70					75				80
Met	Leu	Val	Asn	Ile	Gln	Thr	Gln	Ser	Lys	Ser	Ile	Ser	Tyr	Ala
				85					90					95
Cys	Ile	Thr	Gln	Ile	Tyr	Phe	Phe	Met	Leu	Phe	Gly	Gly	Met	Asp
			100					105					110	
Leu	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys
		115					120					125		
Pro	Leu	His	Tyr	Ser	Val	Ile	Met	Asn	Pro	Gln	Leu	Ser	Gly	Leu
	130					135					140			
Val	Leu	Val	Ser	Trp	Phe	Ile	Ser	Phe	Ser	Tyr	Ser	Leu	Ile	Gln
145					150					155				160
Leu	Leu	Met	Leu	Arg	Leu	Ser	Phe	Cys	Thr	Asn	Gln	Ile	Ile	Lys
				165					170					175
Phe	Tyr	Cys	Glu	Tyr	Ala	Lys	Ala	Leu	Thr	Ile	Ala	Cys	Ser	Asp
			180					185					190	
Leu	Ile	Asn	His	Ile	Leu	Leu	Tyr	Ile	Val	Ile	Trp	Val	Leu	Gly
		195					200					205		
Ile	Pro	Phe	Ser	Gly	Ile	Leu	Tyr	Ser	Tyr	Tyr	Lys	Ile	Phe	Ser
	210					215					220			
Ile	Leu	Arg	Ile	Pro	Ser	Thr	Asp	Gly	Lys	Tyr	Lys	Ala	Phe	Ser
225					230					235				240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Gly
				245					250					255
Ser	Val	Tyr	Leu	Ser	Ser	Asp	Ala	Thr	Ser	Ser	Ser	Gly	Lys	Gly
			260					265					270	
Val	Ala	Ser	Val	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro
			275				280					285		
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Lys	Ala	Leu	Lys	Thr
	290					295					300			
Gly	Arg	Ile	Leu	Leu	Leu	Lys								
305					310									

<210> 1522  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1522

Met	Lys	Pro	Glu	Asn	Gln	Thr	Asn	Ile	Leu	Glu	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Gln	Tyr	Pro	Glu	His	Gln	Pro	Met	Leu	Phe	Gly	Leu	Phe	Leu
			20					25					30		
Leu	Met	Phe	Val	Val	Ala	Val	Phe	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Ala
		35					40					45			
Val	Ser	Ile	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Ser	Asp	Ile	Gly	Phe	Ile	Ser	Thr	Thr	Ile	Pro	Lys
65					70					75				80	
Met	Leu	Val	Asn	Ile	Gln	Thr	Gln	Ser	Lys	Ser	Ile	Ser	Tyr	Ala	Glu
			85						90					95	
Cys	Ile	Thr	Gln	Ile	Tyr	Phe	Phe	Met	Leu	Phe	Gly	Gly	Met	Asp	Thr
			100					105					110		
Leu	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	His	Tyr	Ser	Val	Ile	Met	Asn	Pro	Gln	Leu	Ser	Gly	Leu	Leu
	130					135					140				

Val	Leu	Val	Ser	Trp	Phe	Ile	Ser	Phe	Ser	Tyr	Ser	Leu	Ile	Gln	Ser	145	150	155	160
Leu	Leu	Met	Leu	Arg	Leu	Ser	Phe	Cys	Thr	Asn	Gln	Ile	Ile	Lys	His	165	170	175	
Phe	Tyr	Cys	Glu	Tyr	Ser	Arg	Ala	Leu	Thr	Ile	Ala	Cys	Ser	Asp	Thr	180	185	190	
Leu	Ile	Asn	His	Ile	Leu	Leu	Tyr	Ile	Leu	Ile	Cys	Val	Leu	Gly	Phe	195	200	205	
Ile	Pro	Phe	Ser	Gly	Ile	Leu	Tyr	Ser	Tyr	Cys	Lys	Ile	Val	Ser	Ser	210	215	220	
Ile	Leu	Arg	Ile	Pro	Ser	Thr	Asp	Gly	Lys	Tyr	Lys	Ala	Phe	Ser	Thr	225	230	235	240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Gly	Leu	245	250	255	
Gly	Val	Tyr	Leu	Ser	Ser	Asp	Val	Thr	Ser	Ser	Ser	Gly	Lys	Asp	Val	260	265	270	
Val	Ala	Ser	Val	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe	275	280	285	
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Lys	Ala	Leu	Lys	Thr	Leu	290	295	300	
Gly	Arg	Ile	Leu	Leu	Leu	Lys										305	310		

<210> 1523  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1523

Met	Gln	Asn	Gln	Ser	Leu	Val	Asn	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Ser	1	5	10	15
Gln	Asn	Thr	Lys	Val	Glu	Lys	Ile	Leu	Phe	Leu	Leu	Phe	Leu	Leu	Ile	20	25	30	
Tyr	Leu	Ala	Thr	Ile	Gly	Gly	Asn	Met	Ile	Ile	Val	Ala	Thr	Ile	Ile	35	40	45	
Tyr	Ser	Pro	Ala	Leu	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Val	Phe	50	55	60	
Leu	Ser	Leu	Leu	Asp	Ala	Cys	Thr	Ser	Thr	Val	Val	Thr	Pro	Lys	Met	65	70	75	80
Ile	Val	Gly	Phe	Phe	Tyr	Glu	Arg	Lys	Ile	Ile	Ser	Phe	Glu	Gly	Cys	85	90	95	
Met	Thr	Gln	Leu	Phe	Ala	Ile	His	Phe	Phe	Thr	Ala	Val	Glu	Val	Ile	100	105	110	
Val	Leu	Ser	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	115	120	125	
Leu	His	Tyr	Leu	Ser	Ile	Met	Ser	Lys	Arg	Val	Cys	Gly	Val	Leu	Val	130	135	140	
Gly	Ile	Ala	Trp	Ala	Gly	Gly	Phe	Leu	His	Ser	Ile	Ile	Gln	Ile	Val	145	150	155	160
Phe	Thr	Leu	Gln	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Tyr	165	170	175	
Met	Cys	Asp	Leu	Phe	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Thr	Asp	Thr	Gln	180	185	190	
Ile	Phe	Val	Ile	Leu	Val	Phe	Ala	Asn	Ser	Gly	Ser	Ile	Cys	Ile	Ile	195	200	205	
Ile	Phe	Ser	Leu	Leu	Leu	Val	Ser	Tyr	Gly	Val	Ile	Leu	Phe	Ser	Leu				

210	215	220
Arg Ala His Ser Ser Glu Gly Arg Tyr Lys Ala Leu Ser Thr Cys Gly		
225	230	235
Ser His Ile Thr Val Val Val Leu Phe Phe Val Pro Cys Ile Leu Ile		
	245	250
Tyr Ala Arg Pro Ser Ser Pro Phe Ser Phe Glu Lys Asn Thr Leu Ile		
	260	265
Phe Ala Asn Val Leu Thr Pro Leu Leu Asn Pro Met Val Tyr Thr Phe		
	275	280
Arg Asn Lys Glu Met Lys Ser Ala Ile Arg Lys Met Trp Lys Arg Leu		
	290	295
Val Val Val Ser Asp Lys Tyr		300
305	310	

<210> 1524  
 <211> 304  
 <212> PRT  
 <213> Mus musculus

<400> 1524

Met Gln Asn Gln Ser Phe Val Thr Glu Phe Ile Leu Leu Gly Leu Ser	
1 5 10 15	
Gln Asn Leu Asn Val Glu Lys Met Leu Phe Val Leu Phe Leu Phe Ile	
20 25 30	
Tyr Ile Ala Thr Ile Gly Gly Asn Met Met Ile Val Val Thr Ile Ile	
35 40 45	
Tyr Ser Pro Ala Leu Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Phe	
50 55 60	
Leu Ser Phe Leu Asp Ala Cys Thr Ser Ser Thr Val Thr Pro Lys Ile	
65 70 75 80	
Ile Val Asp Cys Phe Tyr Glu Arg Lys Thr Ile Ser Phe Glu Cys Cys	
85 90 95	
Met Thr Gln Leu Phe Thr Val His Phe Phe Thr Gly Ala Glu Val Ile	
100 105 110	
Val Leu Ala Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro	
115 120 125	
Leu His Tyr Ser Ser Ile Met Thr Gln Arg Leu Cys Gly Ile Leu Val	
130 135 140	
Val Val Ser Trp Ala Gly Gly Phe Leu His Ser Ile Ile Gln Ile Ile	
145 150 155 160	
Phe Thr Leu Gln Leu Pro Leu Cys Gly Pro Asn Val Ile Asp His Tyr	
165 170 175	
Met Cys Asp Leu Phe Pro Leu Leu Lys Leu Ala Cys Thr Asp Thr His	
180 185 190	
Ile Tyr Val Leu Leu Ile Phe Ala Asn Ser Gly Ala Ile Cys Ile Ile	
195 200 205	
Ile Phe Ser Leu Leu Ile Val Ser Tyr Gly Val Ile Leu Phe Ser Leu	
210 215 220	
Arg Ala Gln Ser Ser Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Gly	
225 230 235 240	
Ser His Ile Thr Val Val Leu Leu Phe Phe Val Pro Cys Ile Leu Ile	
245 250 255	
Tyr Ala Arg Pro Thr Ser Ala Phe Ser Phe Glu Lys Asn Met Leu Ile	
260 265 270	
Phe Val Asn Val Leu Thr Pro Leu Leu Asn Pro Met Val Tyr Thr Phe	
275 280 285	

Arg	Asn	Lys	Glu	Met	Ile	Asn	Ala	Ile	Lys	Lys	Ile	Trp	Lys	Arg	Phe
290						295					300				

<210> 1525  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1525															
Met	Glu	Asn	Gln	Ser	Ile	Val	Asn	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Ser
1				5					10					15	
Gln	Asn	Pro	Lys	Ile	Glu	Asn	Ile	Leu	Phe	Val	Val	Phe	Leu	Leu	Val
			20					25					30		
Tyr	Leu	Ala	Thr	Ile	Gly	Gly	Asn	Met	Met	Ile	Ile	Ala	Thr	Ile	Ile
		35					40					45			
Tyr	Ser	Pro	Ala	Leu	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ile	Phe
	50					55					60				
Leu	Ser	Leu	Leu	Asp	Thr	Cys	Thr	Ser	Thr	Val	Val	Thr	Pro	Lys	Leu
65					70					75					80
Ile	Leu	Asp	Phe	Phe	Tyr	Glu	Arg	Lys	Thr	Ile	Ser	Phe	Glu	Gly	Cys
				85					90					95	
Met	Thr	Gln	Leu	Phe	Ala	Phe	His	Phe	Phe	Thr	Gly	Ala	Glu	Val	Ile
			100					105					110		
Val	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro
		115					120					125			
Leu	His	Tyr	Ser	Ser	Ile	Met	Thr	Trp	Arg	Leu	Cys	Gly	Val	Leu	Val
	130					135					140				
Gly	Val	Ala	Trp	Thr	Gly	Gly	Phe	Leu	His	Ser	Ile	Ile	Gln	Ile	Ile
145					150					155					160
Phe	Thr	Leu	Gln	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	Asn	Tyr
				165					170					175	
Ile	Cys	Asp	Leu	Phe	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Thr	Asp	Thr	His
		180						185					190		
Ile	Phe	Val	Phe	Leu	Val	Phe	Ala	Asn	Ser	Gly	Ser	Ile	Cys	Ile	Ile
		195					200					205			
Ile	Phe	Ser	Leu	Leu	Leu	Val	Ser	Tyr	Gly	Val	Ile	Leu	Phe	Ser	Leu
	210					215					220				
Arg	Gly	His	Ser	Ser	Glu	Gly	Arg	Leu	Lys	Ala	Leu	Ser	Thr	Cys	Gly
225					230					235					240
Ser	His	Ile	Thr	Val	Val	Val	Leu	Phe	Phe	Val	Pro	Cys	Ile	Leu	Ile
				245					250					255	
Tyr	Ala	Arg	Thr	Ser	Pro	Phe	Pro	Tyr	Glu	Lys	Tyr	Val	Ala	Ile	
			260				265					270			
Phe	Val	Asn	Val	Ile	Thr	Pro	Leu	Asn	Pro	Met	Val	Tyr	Thr	Phe	
		275					280				285				
Arg	Asn	Lys	Glu	Met	Lys	Asn	Ala	Ile	Arg	Lys	Met	Cys	Arg	Arg	Ser
	290					295					300				
Lys	Val	Val	Ser	Asp	Asn	Tyr									
305					310										

<210> 1526  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1526

```
Met Gln Asn Gln Ser Phe Val Thr Glu Phe Ile Leu Leu Gly Leu Ser
 1          5          10          15
Gln Asn Leu Tyr Val Glu Lys Ile Leu Phe Val Leu Phe Leu Leu Ile
      20          25          30
Tyr Leu Ala Thr Ile Gly Gly Asn Met Ile Ile Val Val Thr Ile Ile
      35          40          45
Tyr Ser Pro Ala Leu Leu Gly Ser Pro Met Tyr Phe Phe Leu Ile Phe
      50          55          60
Leu Ser Leu Leu Asp Ala Leu Thr Ser Ser Thr Val Thr Pro Lys Ile
      65          70          75          80
Ile Val Asp Cys Phe Tyr Glu Arg Lys Thr Ile Ser Phe Glu Cys Cys
      85          90          95
Met Thr Gln Leu Phe Thr Val His Phe Phe Thr Gly Ala Glu Val Ile
      100          105          110
Val Leu Ala Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro
      115          120          125
Leu His Tyr Ser Ser Ile Met Thr Arg Arg Leu Cys Gly Ile Leu Val
      130          135          140
Val Val Ser Trp Ala Gly Gly Phe Leu His Ser Ile Ile Gln Ile Ile
      145          150          155          160
Phe Thr Leu Gln Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Tyr
      165          170          175
Met Cys Asp Leu Phe Pro Leu Leu Lys Leu Ala Cys Thr Asp Thr His
      180          185          190
Ile Tyr Val Leu Leu Ile Phe Ala Asn Ser Gly Ala Ile Cys Ile Ile
      195          200          205
Ile Phe Ser Leu Leu Leu Val Ser Tyr Gly Ile Ile Leu Phe Ser Leu
      210          215          220
Arg Ala His Ser Ser Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Gly
      225          230          235          240
Ser His Ile Ile Val Val Leu Leu Cys Phe Val Pro Cys Leu Leu Ile
      245          250          255
Tyr Ala Arg Pro Thr Ser Ala Phe Ser Phe Glu Lys Asn Met Leu Ile
      260          265          270
Phe Ile Asn Val Leu Thr Pro Leu Leu Asn Pro Met Val Tyr Thr Phe
      275          280          285
Arg Asn Lys Glu Met Lys Asn Ala Ile Arg Lys Met Trp Lys Arg Leu
      290          295          300
Ile Val Val Ser Asp Lys Phe
      305          310
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<210> 1527

<211> 311

<212> PRT

<213> Mus musculus

<400> 1527

```
Met Gln Asn Gln Thr Leu Val Thr Glu Phe Leu Leu Leu Gly Leu Ser
 1          5          10          15
Gln Asn Pro Lys Val Gln Lys Ile Val Phe Val Val Phe Leu Phe Ile
      20          25          30
Tyr Ile Ala Thr Val Gly Gly Asn Met Ile Ile Val Val Thr Ile Ile
      35          40          45
Cys Ser Arg Ala Leu Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Cys
      50          55          60
```



Leu Ser Phe Leu Asp Ala Cys Ile Ser Ser Val Ile Thr Pro Lys Val  
 65 70 75 80  
 Thr Val Asp Leu Leu Tyr Glu Lys Arg Thr Ile Ser Phe Glu Gly Cys  
 85 90 95  
 Met Ala Gln Val Phe Ala Val His Phe Phe Thr Gly Val Glu Val Ile  
 100 105 110  
 Val Leu Ile Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro  
 115 120 125  
 Leu Tyr Tyr Ser Ser Ile Met Asn Arg Arg Leu Cys Gly Ile Leu Met  
 130 135 140  
 Gly Met Ala Trp Thr Gly Phe Leu His Ser Thr Ile Gln Ile Ile  
 145 150 155 160  
 Phe Ile Leu Cys Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe  
 165 170 175  
 Leu Cys Asp Leu Phe Pro Leu Leu Lys Leu Ala Cys Thr Asp Thr His  
 180 185 190  
 Ile Phe Val Ile Leu Val Phe Ala Asn Ser Gly Ser Phe Cys Ile Ile  
 195 200 205  
 Ile Phe Ser Leu Leu Leu Ile Ser Tyr Gly Val Ile Leu Phe Ser Leu  
 210 215 220  
 Arg Thr His Ser Thr Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Gly  
 225 230 235 240  
 Ser His Ile Thr Val Val Val Leu Phe Phe Val Pro Cys Ile Ile Ile  
 245 250 255  
 Tyr Ala Arg Pro Thr Ser Ala Phe Phe Ser Glu Lys Asn Met Phe Leu  
 260 265 270  
 Phe Ala Thr Ile Leu Thr Pro Leu Leu Asn Pro Met Ile Tyr Thr Phe  
 275 280 285  
 Arg Asn Lys Glu Met Lys Asn Ala Ile Arg Lys Ile Trp Lys Lys Leu  
 290 295 300  
 Ile Leu Asp Tyr Gly Ile Ser  
 305 310

<210> 1528  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1528  
 Met His Asn Gln Ser Tyr Val Asn Glu Phe Ile Leu Leu Gly Leu Ser  
 1 5 10 15  
 Gln Asn Pro Gln Ile Glu Lys Ile Ser Phe Phe Ile Phe Leu Leu Val  
 20 25 30  
 Tyr Leu Ala Thr Leu Val Gly Asn Met Ile Ile Val Val Thr Ile Val  
 35 40 45  
 Tyr Ser Pro Ala Leu Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Phe  
 50 55 60  
 Leu Ser Phe Leu Asp Ala Cys Val Ser Ser Val Val Thr Pro Lys Met  
 65 70 75 80  
 Ile Ala Asp Met Thr Tyr Glu Arg Lys Ile Ile Ser Phe Glu Cys Cys  
 85 90 95  
 Met Thr Gln Val Phe Ala Val His Phe Leu Thr Ala Val Glu Val Ile  
 100 105 110  
 Val Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro  
 115 120 125  
 Leu His Tyr Ser Phe Ile Met Asn Arg Arg Leu Cys Gly Thr Leu Val

130		135		140
Gly Val Ala Trp Ala	Gly Gly Phe Leu His Ser	Ile Ile Gln Ile Ala		
145	150	155	160	
Phe Thr Leu Lys Leu	Pro Phe Cys Gly Pro	Asn Val Ile Asp His Phe		
	165	170	175	
Ile Cys Asp Leu Phe	Pro Leu Leu Lys Leu	Ala Cys Thr Asp Ile His		
	180	185	190	
Ile Phe Ile Ile Leu	Val Phe Ala Asn Ser	Gly Ser Ile Cys Ile Ile		
	195	200	205	
Ile Phe Ser Phe Leu	Leu Ile Ser Tyr Gly	Val Ile Leu Phe Ser Leu		
	210	215	220	
Arg Ala His Ser Ser	Glu Gly Arg Arg Lys	Ala Leu Ser Thr Cys Gly		
225	230	235	240	
Ser His Ile Thr Val	Val Val Phe Phe Phe	Val Pro Cys Ile Leu Ile		
	245	250	255	
Tyr Ala Arg Pro Thr	Ser Ala Phe Ser Phe	Glu Lys Asn Val Phe Val		
	260	265	270	
Phe Thr Asp Val Leu	Thr Pro Leu Leu Asn	Pro Met Val Tyr Thr Phe		
	275	280	285	
Arg Asn Lys Glu Met	Ile Asn Ala Ile Gly	Lys Met Arg Lys Arg Leu		
	290	295	300	
Ile Met Val Pro Asp	Lys Tyr			
305	310			

<210> 1529  
 <211> 307  
 <212> PRT  
 <213> Mus musculus

<400> 1529

Met Gln Gln Asn Ser Thr Val Thr Glu Phe Ile Leu Leu Gly Leu Thr	
1 5 10 15	
Gln Asp Pro Leu Lys Gln Lys Met Val Phe Ile Ile Phe Leu Val Phe	
20 25 30	
Tyr Met Gly Thr Val Val Gly Asn Thr Leu Ile Ile Val Thr Ile Lys	
35 40 45	
Phe Ser Arg Thr Leu Gly Gly Pro Met Tyr Phe Phe Leu Phe Tyr Leu	
50 55 60	
Ser Phe Ala Asp Ser Cys Phe Ser Thr Ser Thr Ala Pro Arg Leu Ile	
65 70 75 80	
Val Asp Ala Leu Ser Lys Lys Asn Ile Ile Ser Tyr Asn Glu Cys Met	
85 90 95	
Thr Gln Val Phe Ala Leu His Leu Phe Gly Cys Met Glu Val Phe Val	
100 105 110	
Leu Ile Phe Met Ala Val Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu	
115 120 125	
His Tyr Pro Val Ile Met Arg Arg Gln Val Cys Val Ile Leu Ile Ile	
130 135 140	
Val Ala Trp Ile Gly Ser Phe Leu His Ser Thr Thr Gln Ile Val Leu	
145 150 155 160	
Ala Leu Arg Leu Pro Phe Cys Gly Pro Asn Leu Ile Asp His Tyr Cys	
165 170 175	
Cys Asp Leu Gln Pro Leu Leu Glu Leu Ala Cys Met Asp Thr His Met	
180 185 190	
Ile Asn Leu Leu Leu Val Phe Asn Ser Gly Ala Ile Cys Ser Ser Ser	
195 200 205	

Phe	Leu	Ile	Phe	Ile	Ile	Ser	Tyr	Phe	Val	Ile	Leu	Tyr	Ser	Leu	Arg
210						215					220				
Asn	His	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Ala	Leu	Ser	Thr	Cys	Thr	Ser
225					230					235					240
His	Ile	Ile	Val	Val	Val	Leu	Ser	Phe	Gly	Pro	Cys	Ile	Phe	Ile	Tyr
			245						250					255	
Ala	Arg	Pro	Pro	Thr	Thr	Phe	Ser	Met	Asp	Lys	Met	Val	Thr	Val	Phe
			260					265					270		
Phe	Thr	Ile	Gly	Ser	Pro	Phe	Leu	Asn	Pro	Ile	Ile	Tyr	Thr	Leu	Arg
		275					280					285			
Asn	Ala	Glu	Val	Lys	Asn	Ala	Met	Lys	Lys	Leu	Trp	His	Val	Lys	Ile
290						295					300				
Met	Thr	Glu													
305															

<210> 1530

<211> 307

<212> PRT

<213> Mus musculus

<400> 1530

Met	Gln	Gln	Asn	Ser	Thr	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Gln	Asp	Pro	Leu	Lys	Gln	Lys	Met	Val	Phe	Ile	Ile	Phe	Leu	Val	Phe
			20					25					30		
Tyr	Leu	Gly	Thr	Val	Val	Gly	Asn	Thr	Leu	Ile	Ile	Val	Thr	Ile	Lys
		35					40					45			
Phe	Ser	Arg	Thr	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Phe	Tyr	Leu
	50					55					60				
Ser	Phe	Ser	Asp	Ser	Cys	Phe	Ser	Thr	Ser	Thr	Ala	Pro	Arg	Leu	Ile
65					70					75					80
Val	Asp	Ala	Leu	Ser	Lys	Lys	Asn	Ile	Ile	Ser	Tyr	Asn	Glu	Cys	Met
				85					90					95	
Thr	Gln	Val	Phe	Ala	Leu	His	Leu	Phe	Gly	Cys	Met	Asp	Val	Phe	Ile
			100					105					110		
Leu	Ile	Phe	Met	Ala	Val	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
Arg	Tyr	Ser	Val	Ile	Met	Arg	Arg	Gln	Val	Cys	Val	Ile	Leu	Ile	Ile
	130					135					140				
Val	Ala	Trp	Ile	Gly	Ser	Phe	Leu	His	Ser	Thr	Thr	Gln	Ile	Val	Leu
145					150					155					160
Ala	Leu	Arg	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Leu	Ile	Asp	His	Tyr	Cys
				165					170					175	
Cys	Asp	Leu	Gln	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Met	Asp	Thr	Tyr	Met
			180					185					190		
Ile	Asn	Leu	Leu	Leu	Val	Phe	Asn	Ser	Gly	Ala	Ile	Cys	Ser	Ser	Ser
		195					200					205			
Phe	Val	Ile	Leu	Ile	Ile	Ser	Tyr	Phe	Val	Ile	Leu	His	Ser	Leu	Arg
	210					215					220				
Asn	His	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Ala	Leu	Ser	Thr	Cys	Thr	Ser
225					230					235					240
His	Ile	Ile	Val	Val	Ile	Leu	Ser	Phe	Val	Pro	Cys	Ile	Phe	Ile	Tyr
			245						250					255	
Ala	Arg	Pro	Pro	Thr	Thr	Phe	Pro	Met	Asp	Lys	Met	Val	Thr	Val	Phe
			260					265					270		
Tyr	Thr	Ile	Gly	Thr	Pro	Phe	Leu	Asn	Pro	Ile	Ile	Tyr	Thr	Leu	Arg

275	280	285
Asn Ala Glu Val Lys Asn Ala Met Lys Lys Leu Trp His Val Lys Phe		
290	295	300
Ile Met Lys		
305		

<210> 1531  
 <211> 307  
 <212> PRT  
 <213> Mus musculus

<400> 1531

Met	Gln	His	Asn	Ser	Thr	Val	Thr	Lys	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Gln	Asp	Pro	Leu	Lys	Gln	Lys	Met	Val	Phe	Ile	Ile	Phe	Leu	Val	Phe
			20					25					30		
Tyr	Leu	Gly	Thr	Val	Val	Gly	Asn	Thr	Leu	Ile	Ile	Met	Thr	Ile	Lys
		35					40					45			
Phe	Ser	Arg	Thr	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Phe	Tyr	Leu
	50					55					60				
Ser	Phe	Ala	Asp	Ser	Cys	Phe	Ser	Thr	Ser	Thr	Ala	Pro	Arg	Leu	Ile
65					70					75					80
Val	Asp	Ala	Leu	Ser	Lys	Lys	Asn	Ile	Ile	Ser	Tyr	Asn	Glu	Cys	Met
				85					90					95	
Thr	Gln	Val	Phe	Ala	Leu	His	Leu	Phe	Gly	Cys	Met	Glu	Ile	Phe	Val
			100					105					110		
Leu	Ile	Leu	Met	Ala	Val	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
Arg	Tyr	Pro	Val	Ile	Met	Ser	Arg	Gln	Val	Cys	Val	Ile	Leu	Ile	Ile
	130					135					140				
Leu	Ala	Trp	Ile	Gly	Ser	Phe	Ile	His	Ser	Thr	Ala	Gln	Ile	Val	Leu
145					150					155					160
Ala	Leu	Arg	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Leu	Ile	Asp	His	Tyr	Cys
				165					170					175	
Cys	Asp	Leu	Gln	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Met	Asp	Thr	Tyr	Met
			180					185				190			
Ile	Asn	Leu	Leu	Leu	Val	Ser	Asn	Ser	Gly	Ala	Ile	Cys	Ser	Ser	Ser
	195						200					205			
Phe	Val	Ile	Leu	Ile	Ile	Ser	Tyr	Phe	Val	Ile	Leu	His	Ser	Leu	Arg
	210					215					220				
Asn	His	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Ala	Leu	Ser	Thr	Cys	Thr	Ser
225					230					235					240
His	Ile	Ile	Val	Val	Ile	Leu	Phe	Phe	Gly	Pro	Cys	Ile	Phe	Ile	Tyr
				245					250					255	
Ala	Arg	Pro	Pro	Thr	Thr	Phe	Ser	Met	Asp	Lys	Met	Val	Ala	Val	Phe
			260					265					270		
Tyr	Thr	Ile	Gly	Thr	Pro	Phe	Leu	Asn	Pro	Ile	Ile	Tyr	Thr	Leu	Arg
	275						280					285			
Asn	Ala	Glu	Val	Lys	Asn	Ala	Met	Lys	Lys	Leu	Trp	His	Val	Lys	Ile
	290					295					300				
Met	Asn	Glu													
305															

<210> 1532  
 <211> 311

<212> PRT  
<213> Mus musculus

<400> 1532

Met	Gln	Asn	Gln	Ser	Val	Thr	Glu	Phe	Ile	Ile	Leu	Gly	Leu	Ser
1			5					10					15	
Gln	Asn	Pro	Lys	Ile	Glu	Lys	Ile	Leu	Phe	Val	Val	Phe	Leu	Val
		20					25					30		
Tyr	Met	Ala	Thr	Val	Gly	Gly	Asn	Met	Ile	Ile	Val	Val	Thr	Ile
		35					40					45		
Tyr	Ser	Pro	Ala	Leu	Leu	Ser	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ala
	50					55				60				Phe
Leu	Ser	Phe	Leu	Asp	Ala	Cys	Val	Ser	Ser	Thr	Val	Thr	Pro	Lys
65				70						75				80
Val	Val	Asp	Phe	Leu	His	Glu	Lys	Lys	Thr	Ile	Ser	Phe	Gly	Cys
			85						90				95	Cys
Met	Thr	Gln	Leu	Phe	Ser	Val	His	Phe	Phe	Ser	Gly	Ala	Glu	Met
		100						105					110	Ile
Val	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
	115					120					125			Pro
Leu	His	Tyr	Ser	Ser	Ile	Leu	Thr	Arg	Arg	Leu	Cys	Ser	Ile	Leu
	130					135					140			Val
Ala	Ile	Ser	Trp	Ala	Gly	Gly	Phe	Leu	His	Ala	Ile	Val	Gln	Val
145					150					155				160
Phe	Arg	Leu	Gln	Leu	Pro	Leu	Cys	Gly	Pro	Asn	Val	Ile	Asp	His
			165						170				175	Tyr
Met	Cys	Asp	Leu	Phe	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Thr	Asp	Thr
		180						185					190	His
Ile	Phe	Val	Leu	Leu	Val	Phe	Ala	Asn	Ser	Gly	Ala	Ile	Cys	Ile
	195						200					205		Ile
Ile	Phe	Ser	Leu	Leu	Leu	Val	Ser	Tyr	Gly	Val	Ile	Leu	Phe	Ser
	210					215					220			Leu
Arg	Ala	His	Ser	Ser	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys
225					230					235				240
Ala	His	Val	Thr	Val	Val	Val	Leu	Phe	Leu	Val	Pro	Cys	Ile	Leu
			245						250				255	Ile
Tyr	Ala	Arg	Asp	Thr	Ser	Ala	Phe	Ser	Tyr	Glu	Lys	Asp	Thr	Leu
		260					265						270	Ile
Phe	Val	Asn	Val	Leu	Thr	Pro	Leu	Leu	Asn	Pro	Met	Val	Tyr	Thr
		275					280					285		Phe
Arg	Asn	Lys	Glu	Met	Ile	Asn	Ala	Ile	Arg	Lys	Met	Trp	Lys	Arg
	290					295					300			Leu
Ile	Val	Ile	Phe	Val	Arg	Tyr								
305					310									

<210> 1533  
<211> 311  
<212> PRT  
<213> Mus musculus

<400> 1533

Met	Leu	Asn	Gln	Ser	Phe	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu
1				5					10					15
Gln	Asn	Pro	Lys	Val	Glu	Lys	Ile	Leu	Phe	Val	Leu	Phe	Phe	Leu
		20						25				30		Val
Tyr	Leu	Ala	Thr	Ile	Gly	Gly	Asn	Ile	Val	Ile	Val	Val	Thr	Ile



Val	Leu	Ser	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro
	115						120					125			
Leu	His	Tyr	Ser	Ser	Ile	Met	Asn	Arg	Arg	Leu	Cys	Gly	Asn	Leu	Val
	130					135					140				
Met	Val	Ser	Trp	Ala	Gly	Gly	Phe	Leu	His	Ser	Ile	Ile	Gln	Ile	Ile
145					150					155					160
Phe	Met	Leu	Gln	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Tyr
			165						170					175	
Met	Cys	Asp	Leu	Phe	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Thr	Asp	Thr	Tyr
		180						185					190		
Ile	Phe	Val	Ile	Leu	Val	Phe	Ala	Asn	Ser	Gly	Ser	Ile	Cys	Ile	Ile
	195						200					205			
Ile	Phe	Ser	Ile	Leu	Leu	Val	Ser	Tyr	Gly	Val	Ile	Leu	Tyr	Ser	Leu
	210					215					220				
Lys	Ala	His	Ser	Ser	Glu	Gly	Lys	Phe	Lys	Ala	Leu	Ser	Thr	Cys	Gly
225					230					235					240
Ser	His	Ile	Ile	Val	Val	Val	Leu	Phe	Phe	Val	Pro	Cys	Ile	Leu	Thr
				245					250					255	
Tyr	Ala	Arg	Pro	Ile	Ser	Ala	Phe	Ser	Phe	Glu	Lys	Asn	Ala	Val	Val
		260						265					270		
Phe	Thr	Thr	Val	Leu	Thr	Pro	Leu	Leu	Asn	Ser	Val	Val	Tyr	Thr	Phe
		275				280						285			
Arg	Asn	Lys	Glu	Met	Lys	Asn	Ala	Ile	Arg	Lys	Met	Trp	Lys	Lys	Leu
	290					295					300				
Ile	Ala	Val	Ser	Asp	Lys	His									
305					310										

<210> 1535  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 1535

Met	Thr	Ala	Arg	Asn	Met	Thr	Thr	Met	Ser	Gly	Phe	Leu	Leu	Met	Gly
1				5				10						15	
Phe	Ser	Asp	Asn	His	Glu	Leu	Gln	Ile	Leu	Gln	Ala	Leu	Leu	Phe	Leu
			20					25					30		
Leu	Thr	Tyr	Leu	Leu	Gly	Ser	Ala	Gly	Asn	Phe	Ile	Ile	Ile	Thr	Ile
		35				40						45			
Thr	Thr	Leu	Asp	Pro	Gln	Leu	Gln	Ser	Pro	Met	Tyr	Tyr	Phe	Leu	Lys
	50					55					60				
Gln	Leu	Ser	Thr	Leu	Asp	Leu	Ser	Ser	Leu	Ser	Val	Thr	Val	Pro	Gln
65					70					75					80
Tyr	Val	Ala	Ser	Ser	Leu	Ala	Arg	Ser	Gly	Tyr	Ile	Ser	Tyr	Gly	Gln
				85					90					95	
Cys	Met	Leu	Gln	Ile	Phe	Phe	Phe	Thr	Gly	Leu	Ala	Trp	Ser	Glu	Met
			100					105					110		
Ala	Thr	Leu	Thr	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Leu
		115					120					125			
Pro	Leu	His	Tyr	Glu	Val	Ile	Met	Ser	Pro	Arg	Lys	Cys	Thr	Trp	Ala
		130				135					140				
Val	Ala	Ala	Val	Trp	Leu	Ser	Gly	Gly	Ile	Ser	Gly	Thr	Leu	Phe	Thr
145					150					155					160
Ala	Ser	Thr	Leu	Ser	Ile	Arg	Phe	Cys	Gly	Asp	Lys	Ile	Ile	His	Gln
				165					170					175	
Phe	Phe	Cys	Asp	Ile	Pro	Gln	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asn	Asp







<210> 1538  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1538  
 Met Asp Gly Ser Asn Arg Ser Leu Val Ser Glu Phe Val Leu Leu Gly  
 1 5 10 15  
 Leu Ala Arg Ser Gln Asn Leu Gln Val Leu Leu Phe Ile Ile Phe Leu  
 20 25 30  
 Val Val Tyr Leu Leu Ile Leu Ser Gly Asn Thr Ile Val Met Phe Leu  
 35 40 45  
 Ile Ile Thr Asp Lys Asn Leu His Ser Pro Met Tyr Phe Phe Leu Ala  
 50 55 60  
 Asn Leu Ser Phe Val Asp Met Trp Leu Ser Ser Ala Thr Thr Pro Lys  
 65 70 75 80  
 Met Ile Thr Asp Phe Leu Lys Glu Pro Lys Ile Ile Ser Phe Ala Gly  
 85 90 95  
 Cys Met Ser Gln Val Phe Phe Asp His Cys Val Gly Ala Val Glu Met  
 100 105 110  
 Leu Leu Leu Val Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys  
 115 120 125  
 Pro Leu His Tyr Phe Thr Ile Met Ser Leu Lys Arg Cys Ala Gly Leu  
 130 135 140  
 Val Leu Thr Ser Trp Ala Ile Ala Phe Val His Ala Met Ser Gln Leu  
 145 150 155 160  
 Leu Ala Val Val Gln Leu Pro Leu Cys Gly His Met Glu Ile Asp Ser  
 165 170 175  
 Phe Phe Cys Asp Ile Pro Leu Ile Ile Lys Leu Ala Cys Met Asp Ser  
 180 185 190  
 His Ile Leu Asp Ile Tyr Met Asn Val Asp Cys Gly Phe Val Val Val  
 195 200 205  
 Thr Cys Phe Ile Leu Leu Leu Ile Ser Tyr Thr Tyr Ile Leu Leu Thr  
 210 215 220  
 Val Arg Gln Ser Ser Lys Ala Gly Ala Ser Lys Ala Leu Ser Thr Cys  
 225 230 235 240  
 Thr Ala His Ile Thr Val Val Met Ile Phe Phe Val Pro Cys Ile Phe  
 245 250 255  
 Ile Tyr Val Trp Pro Leu Ser Ile Thr Trp Leu Asp Lys Phe Leu Ala  
 260 265 270  
 Val Phe Tyr Thr Val Phe Ala Pro Leu Leu Asn Pro Ala Ile Tyr Thr  
 275 280 285  
 Leu Arg Asn Lys Glu Met Arg Asn Ala Val Lys Lys Leu Lys Asn His  
 290 295 300  
 Phe Met Asp Tyr Lys Gly Asn Thr  
 305 310

<210> 1539  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1539  
 Met Asp Arg Asp Asn Gln Thr Val Leu Ser Glu Phe Val Leu Leu Gly  
 1 5 10 15

Leu Ser Asn Ser Lys Asn Leu Gln Val Leu Leu Phe Leu Ile Phe Leu  
 20 25 30  
 Leu Leu Tyr Leu Leu Ile Met Ser Gly Asn Ile Ile Ile Gln Ile Leu  
 35 40 45  
 Ile Thr Thr Asp Pro His Leu His Ser Pro Met Tyr Phe Leu Leu Ala  
 50 55 60  
 Asn Leu Ser Phe Val Asp Met Trp Leu Ser Ser Asn Thr Thr Pro Lys  
 65 70 75 80  
 Met Ile Ile Asp Phe Leu Ser Glu Asn Lys Thr Ile Ser Phe Ala Gly  
 85 90 95  
 Cys Met Ser Gln Val Phe Leu Ser His Cys Ile Ala Gly Gly Glu Met  
 100 105 110  
 Val Leu Leu Val Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys  
 115 120 125  
 Pro Leu His Tyr Phe Thr Ile Met Asn Leu Lys Arg Cys Thr Gly Leu  
 130 135 140  
 Val Leu Thr Ser Trp Thr Ile Gly Phe Ile His Gly Ile Ser Tyr Phe  
 145 150 155 160  
 Leu Val Val Val Gln Leu Pro Phe Cys Gly Pro Asn Lys Ile Asp Ser  
 165 170 175  
 Phe Phe Cys Asp Met Pro Leu Val Ile Lys Leu Ala Cys Met Asp Ser  
 180 185 190  
 His Asp Leu Asn Thr Leu Met Asn Ala Glu Cys Gly Val Val Ala Val  
 195 200 205  
 Thr Cys Phe Met Leu Leu Leu Phe Ser Tyr Thr Tyr Ile Leu Ile Thr  
 210 215 220  
 Val Arg Gln Thr Ser Lys Asn Gly Ala Ser Lys Ala Leu Ser Thr Cys  
 225 230 235 240  
 Thr Ala His Ile Thr Val Val Met Ile Phe Phe Leu Pro Cys Met Phe  
 245 250 255  
 Ile Tyr Val Trp Pro Leu Ser Ile Thr Trp Leu Asp Lys Phe Leu Ala  
 260 265 270  
 Val Phe Tyr Ser Val Phe Thr Pro Leu Leu Asn Pro Ala Ile Tyr Thr  
 275 280 285  
 Leu Arg Asn Lys Glu Met Lys Asn Ala Met Lys Arg Phe Ile Gly Lys  
 290 295 300  
 Phe Leu Cys Pro Lys Gly Asn Ser  
 305 310

<210> 1540

<211> 312

<212> PRT

<213> Mus musculus

<400> 1540

Met Asp Gly Asp Asn Gln Thr Val Val Ser Glu Phe Ile Leu Trp Gly  
 1 5 10 15  
 Leu Ala His Ser Lys Asn Ile Gln Val Leu Leu Phe Val Ile Phe Leu  
 20 25 30  
 Met Leu Tyr Leu Leu Ile Met Ser Gly Asn Ile Val Ile Leu Thr Leu  
 35 40 45  
 Ile Thr Thr Asp Thr His Leu His Ser Pro Met Tyr Phe Leu Leu Ala  
 50 55 60  
 Asn Leu Ser Phe Val Asp Met Trp Leu Ser Thr Asn Thr Thr Pro Lys  
 65 70 75 80  
 Met Ile Thr Asp Phe Leu Arg Glu Ile Lys Ile Ile Ser Phe Ala Gly



Gln	Leu	Pro	Leu	Cys	Gly	Pro	Leu	Glu	Ile	Asp	Ser	Phe	Phe	Cys	Asp	
				165					170					175		
Met	Pro	Leu	Val	Ile	Lys	Leu	Ala	Cys	Thr	Asp	Ser	His	Asp	Leu	Asp	
			180					185					190			
Ile	Leu	Met	Asn	Ala	Asp	Cys	Gly	Ile	Val	Val	Val	Ser	Cys	Phe	Ile	
		195					200					205				
Met	Leu	Leu	Ile	Ser	Tyr	Thr	Tyr	Ile	Leu	Ile	Thr	Val	Arg	Arg	Ser	
	210					215					220					
Ser	Lys	Ala	Gly	Ala	Ser	Lys	Ala	Leu	Ser	Thr	Cys	Thr	Ala	His	Ile	
225					230					235					240	
Thr	Val	Val	Met	Leu	Leu	Phe	Leu	Pro	Cys	Ile	Phe	Ile	Tyr	Val	Trp	
				245					250					255		
Pro	Leu	Asn	Ile	Thr	Trp	Leu	Asp	Lys	Phe	Leu	Ala	Val	Phe	Tyr	Ser	
		260						265					270			
Val	Val	Thr	Pro	Leu	Leu	Asn	Pro	Ala	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	
		275					280					285				
Glu	Ile	Lys	Asn	Ala	Leu	Lys	Arg	Phe	Lys	Ser	Tyr	Val	Met	Asn	His	
	290					295					300					
Lys	Val	Asn	Thr													
305																

<210> 1542  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1542

Met	Thr	Ala	Glu	Asn	Gln	Ser	Thr	Val	Thr	Glu	Phe	Ile	Leu	Gly	Gly	
1				5					10					15		
Leu	Thr	Asn	Arg	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Leu	Leu	Phe	Leu	
		20					25					30				
Gly	Ile	Tyr	Val	Val	Thr	Met	Val	Gly	Asn	Leu	Gly	Met	Ile	Thr	Leu	
	35					40					45					
Ile	Gly	Leu	Asn	Ser	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	
	50				55						60					
Asn	Leu	Ser	Leu	Val	Asp	Leu	Cys	Tyr	Ser	Ser	Val	Ile	Thr	Pro	Lys	
65					70				75						80	
Met	Leu	Ile	Asn	Phe	Val	Ser	Gln	Arg	Asn	Leu	Ile	Ser	Tyr	Val	Gly	
			85						90					95		
Cys	Met	Ser	Gln	Leu	Tyr	Phe	Phe	Leu	Val	Phe	Val	Ile	Ala	Glu	Cys	
		100						105					110			
Tyr	Met	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Gln	
	115					120						125				
Pro	Leu	Leu	Tyr	Asn	Ile	Ile	Met	Ser	Pro	Ala	Leu	Cys	Ser	Leu	Leu	
	130				135						140					
Val	Ala	Phe	Val	Tyr	Ala	Val	Gly	Leu	Ile	Gly	Ser	Ala	Ile	Glu	Thr	
145					150					155					160	
Gly	Leu	Met	Leu	Lys	Leu	Asn	Tyr	Cys	Glu	Asp	Leu	Ile	Ser	His	Tyr	
				165					170					175		
Phe	Cys	Asp	Ile	Leu	Pro	Leu	Met	Lys	Leu	Ser	Cys	Ser	Ser	Thr	Tyr	
		180						185					190			
Asp	Val	Glu	Met	Ala	Val	Phe	Phe	Leu	Ala	Gly	Phe	Asp	Ile	Ile	Val	
	195					200						205				
Thr	Ser	Leu	Thr	Val	Leu	Ile	Ser	Tyr	Ala	Phe	Ile	Leu	Ser	Ser	Ile	
	210				215						220					
Leu	Arg	Ile	Ser	Ser	Asn	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	Cys	

225					230					235				240	
Ser	Ser	His	Phe	Ala	Ala	Val	Gly	Leu	Phe	Tyr	Gly	Ser	Thr	Ala	Phe
				245					250					255	
Met	Tyr	Leu	Lys	Pro	Ser	Thr	Ala	Ser	Ser	Leu	Ala	Gln	Glu	Asn	Val
			260					265					270		
Ala	Ser	Val	Phe	Tyr	Thr	Thr	Val	Ile	Pro	Met	Phe	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Thr	Ala	Leu	Asp	Lys	Thr	Leu
	290					295					300				
Arg	Arg	Lys	Val	Phe											
305															

<210> 1543  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1543

Met	Ala	Ala	Glu	Asn	Gln	Ser	Thr	Val	Thr	Glu	Phe	Ile	Leu	Arg	Gly
1				5					10					15	
Leu	Thr	Asn	Arg	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Leu	Leu	Leu	Phe	Leu
		20						25					30		
Gly	Ile	Tyr	Ile	Ile	Thr	Met	Val	Gly	Asn	Leu	Gly	Met	Ile	Thr	Leu
	35					40						45			
Ile	Gly	Leu	Asn	Ser	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Leu	Val	Asp	Leu	Cys	Tyr	Ser	Ser	Val	Ile	Thr	Pro	Lys
65					70					75					80
Met	Leu	Ile	Asn	Phe	Val	Ser	Gln	Arg	Asn	Leu	Ile	Ser	Tyr	Val	Gly
			85						90					95	
Cys	Met	Ser	Gln	Leu	Tyr	Phe	Phe	Leu	Val	Phe	Val	Ile	Ala	Glu	Cys
			100					105					110		
Tyr	Met	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Gln
	115					120						125			
Pro	Leu	Leu	Tyr	Asn	Ile	Ile	Met	Ser	Pro	Ala	Leu	Cys	Ser	Leu	Leu
	130					135					140				
Val	Val	Phe	Val	Tyr	Ala	Met	Gly	Leu	Ile	Gly	Ser	Thr	Ile	Glu	Thr
145					150					155					160
Ser	Leu	Met	Leu	Lys	Leu	Asn	Tyr	Cys	Glu	Asp	Leu	Ile	Ser	His	Tyr
			165						170					175	
Phe	Cys	Asp	Ile	Leu	Pro	Leu	Met	Lys	Leu	Ser	Cys	Ser	Ser	Thr	Tyr
		180						185					190		
Asp	Ile	Glu	Met	Ala	Val	Phe	Phe	Leu	Ala	Gly	Phe	Asn	Ile	Ile	Val
	195						200					205			
Thr	Ser	Leu	Thr	Val	Leu	Ile	Ser	Tyr	Ala	Phe	Ile	Leu	Ser	Ser	Ile
	210					215					220				
Leu	Arg	Ile	Ser	Ser	Asn	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ser	Ser	His	Phe	Ala	Ala	Val	Gly	Leu	Phe	Tyr	Gly	Ser	Thr	Ala	Phe
				245					250					255	
Met	Tyr	Leu	Lys	Pro	Ser	Thr	Ala	Ser	Ser	Leu	Ala	Gln	Glu	Asn	Val
			260					265					270		
Ala	Ser	Val	Phe	Tyr	Thr	Thr	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Thr	Ala	Leu	Asp	Lys	Thr	Leu
	290					295					300				

Arg Arg Arg Val Phe  
305

<210> 1544  
<211> 310  
<212> PRT  
<213> Mus musculus

<400> 1544  
Met Thr Ala Lys Asn Ser Ser Val Thr Glu Phe Ile Leu Ala Gly Leu  
1 5 10 15  
Thr Asp Gln Pro Gly Leu Arg Met Pro Leu Phe Phe Leu Phe Leu Gly  
20 25 30  
Phe Tyr Met Val Thr Val Val Gly Asn Leu Gly Leu Ile Ser Leu Ile  
35 40 45  
Gly Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Phe Asn  
50 55 60  
Leu Ser Leu Ile Asp Phe Cys Tyr Ser Ser Thr Ile Ser Pro Lys Met  
65 70 75 80  
Leu Met Ser Phe Ile Ser Lys Lys Asn Ile Ile Ser His Pro Gly Cys  
85 90 95  
Met Ala Gln Leu Phe Phe Phe Cys Phe Phe Val Ile Ser Glu Ser Phe  
100 105 110  
Ile Leu Ser Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro  
115 120 125  
Leu Met Tyr Met Val Thr Met Ser Pro Gln Val Cys Leu Leu Leu Leu  
130 135 140  
Phe Gly Val Tyr Leu Met Gly Phe Val Gly Ala Met Ala His Thr Ile  
145 150 155 160  
Ser Met Ala Arg Leu Thr Phe Cys Ala Asp Asn Ile Val Asn His Tyr  
165 170 175  
Met Cys Asp Ile Leu Pro Leu Leu Glu His Ser Cys Thr Ser Thr Tyr  
180 185 190  
Val Asn Glu Leu Val Val Phe Ile Phe Val Ser Phe Asp Ile Gly Val  
195 200 205  
Pro Ile Val Thr Ile Phe Ile Ser Tyr Ala Leu Ile Leu Ser Ser Ile  
210 215 220  
Leu His Met His Ser Thr Glu Gly Arg Ser Lys Ala Phe Ser Thr Cys  
225 230 235 240  
Ser Ser His Met Ile Val Val Cys Leu Phe Phe Gly Ser Gly Ala Phe  
245 250 255  
Met Tyr Leu Gln Pro Pro Ser Val Leu Ser Leu Asp Gln Gly Lys Val  
260 265 270  
Ser Ser Leu Phe Tyr Thr Ile Val Val Pro Met Leu Asn Pro Leu Ile  
275 280 285  
Tyr Ser Leu Arg Asn Lys Asp Val Lys Val Ala Val Arg Lys Thr Leu  
290 295 300  
Asp Arg Arg Ile Phe Ser  
305 310

<210> 1545  
<211> 310  
<212> PRT  
<213> Mus musculus

<400> 1545

Met	Thr	Ala	Lys	Asn	Ser	Ser	Val	Ile	Glu	Phe	Ile	Leu	Ala	Gly	Leu
1				5					10					15	
Thr	Asp	Gln	Pro	Gly	Leu	Arg	Met	Pro	Leu	Phe	Phe	Leu	Phe	Leu	Gly
			20					25					30		
Phe	Tyr	Met	Val	Thr	Val	Val	Gly	Asn	Leu	Gly	Leu	Ile	Ser	Leu	Ile
		35					40					45			
Gly	Leu	Asn	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Phe	Asn
	50					55					60				
Leu	Ser	Val	Ile	Asp	Phe	Cys	Tyr	Ser	Ser	Thr	Ile	Ile	Pro	Lys	Met
65					70					75					80
Leu	Met	Asn	Phe	Ile	Ser	Arg	Lys	Asn	Ile	Ile	Ser	His	Ser	Gly	Cys
				85					90					95	
Met	Thr	Gln	Leu	Phe	Phe	Phe	Cys	Phe	Phe	Val	Val	Ser	Glu	Ser	Phe
			100					105					110		
Ile	Leu	Ser	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro
		115					120					125			
Leu	Met	Tyr	Thr	Val	Thr	Met	Ser	Pro	Gln	Val	Tyr	Leu	Leu	Leu	Leu
	130					135					140				
Leu	Gly	Val	Tyr	Val	Met	Gly	Phe	Ser	Gly	Ala	Met	Ala	His	Thr	Gly
145					150					155					160
Asn	Leu	Met	Asn	Leu	Thr	Phe	Cys	Ala	Asp	Asn	Leu	Ile	Asn	His	Phe
			165						170					175	
Met	Cys	Asp	Ile	Leu	Pro	Leu	Leu	Glu	Leu	Ser	Cys	Asn	Ser	Thr	Phe
		180						185					190		
Ile	Asn	Glu	Leu	Val	Ile	Phe	Ile	Val	Val	Ala	Phe	Asp	Ile	Gly	Val
	195						200					205			
Pro	Ile	Val	Thr	Ile	Phe	Ile	Ser	Tyr	Ala	Leu	Ile	Leu	Ser	Ser	Ile
	210					215					220				
Leu	Arg	Met	His	Ser	Thr	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	Tyr
225					230					235					240
Ser	Ser	His	Leu	Ile	Val	Val	Cys	Leu	Phe	Phe	Gly	Ser	Gly	Ala	Phe
			245						250					255	
Met	Tyr	Leu	Lys	Pro	Pro	Ser	Ile	Leu	Pro	Leu	Asp	Gln	Gly	Lys	Val
		260						265					270		
Ser	Ser	Leu	Phe	Tyr	Met	Ile	Val	Val	Pro	Met	Leu	Asn	Pro	Leu	Ile
	275						280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Val	Ala	Leu	Arg	Lys	Thr	Leu
	290					295					300				
Gly	Lys	Arg	Ile	Leu	Ser										
305					310										

<210> 1546

<211> 313

<212> PRT

<213> Mus musculus

<400> 1546

Met	Leu	Lys	Ser	Asn	Thr	Thr	Phe	Val	Thr	Glu	Phe	Leu	Phe	Glu	Gly
1				5					10					15	
Phe	Ser	Gly	Phe	Gly	Trp	Gln	His	Arg	Leu	Ala	Phe	Phe	Ala	Ile	Phe
			20					25					30		
Leu	Ala	Leu	Tyr	Phe	Leu	Thr	Leu	Ser	Gly	Asn	Val	Ile	Ile	Val	Ser
		35					40					45			
Ile	Ile	His	Leu	Asp	His	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				



Ala	Ile	Leu	Ser	Ile	Ser	Asp	Thr	Cys	Tyr	Thr	Val	Thr	Ile	Ile	Pro
65					70					75					80
Arg	Met	Leu	Ser	Asp	Leu	Leu	Asn	Pro	Tyr	His	Thr	Ile	Ala	Phe	Arg
				85					90					95	
Asp	Cys	Val	Val	Gln	Ile	Phe	Phe	Tyr	Leu	Thr	Phe	Gly	Ile	Asn	Asn
			100					105					110		
Cys	Phe	Leu	Leu	Met	Val	Met	Gly	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
		115					120					125			
Asn	Pro	Leu	Arg	Tyr	Ser	Val	Ile	Met	Gly	Arg	Lys	Ala	Cys	Val	His
	130					135					140				
Leu	Ala	Ser	Gly	Ser	Leu	Gly	Ile	Gly	Leu	Gly	Met	Ala	Ile	Val	Gln
145					150					155					160
Val	Thr	Ser	Val	Phe	Ser	Leu	Pro	Phe	Cys	Asp	Arg	Phe	Val	Ile	Pro
				165					170					175	
His	Phe	Phe	Cys	Asp	Val	Arg	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Thr	Asp
			180					185					190		
Thr	Thr	Ile	Asn	Glu	Ile	Ile	Asn	Phe	Val	Val	Ser	Val	Phe	Val	Leu
		195					200					205			
Ile	Leu	Pro	Met	Gly	Val	Val	Phe	Ile	Ser	Tyr	Val	Val	Ile	Ile	Ser
	210					215					220				
Thr	Ile	Leu	Lys	Ile	Ala	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Ala	Phe	Ala
225					230					235					240
Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Ile	Ile	His	Tyr	Gly	Cys	Thr
				245					250					255	
Ala	Ile	Ile	Tyr	Met	Lys	Pro	Lys	Ser	Gln	Ser	Leu	Leu	Gly	Gln	Glu
			260					265					270		
Arg	Leu	Ile	Ser	Val	Thr	Tyr	Thr	Leu	Ile	Thr	Pro	Leu	Leu	Asn	Pro
		275					280					285			
Leu	Val	Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Lys	Asp	Ala	Leu	Arg	Arg
	290					295					300				
Ala	Met	Trp	Gln	Lys	Pro	Leu	Ser	Ser							
305						310									

<210> 1547  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1547

Met	Pro	Lys	Lys	Asn	Ser	Thr	Val	Val	Ala	Glu	Phe	Leu	Phe	Glu	Gly
1				5					10					15	
Phe	Ser	Ser	Phe	Asp	Trp	Gln	His	Arg	Leu	Gly	Phe	Phe	Ile	Val	Phe
			20					25					30		
Leu	Thr	Leu	Tyr	Leu	Leu	Thr	Leu	Ser	Gly	Asn	Met	Ile	Ile	Val	Thr
		35				40						45			
Ile	Ile	Arg	Leu	Asp	Arg	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Ser	Met	Leu	Ser	Ile	Ser	Glu	Thr	Phe	Tyr	Thr	Ile	Ala	Ile	Ile	Pro
65					70					75					80
Arg	Met	Leu	Ala	Gly	Leu	Leu	Asn	Pro	Tyr	Gln	Ala	Ile	Asp	Ile	Gln
				85					90					95	
Gly	Cys	Ala	Thr	Gln	Leu	Phe	Phe	Tyr	Leu	Thr	Phe	Gly	Ile	Asn	Asn
			100					105					110		
Cys	Phe	Leu	Leu	Thr	Ala	Met	Gly	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
		115					120					125			
Asn	Pro	Leu	Arg	Tyr	Ser	Val	Ile	Met	Gly	Lys	Lys	Ala	Cys	Ile	Leu

130		135		140
Leu Ala Ser Gly Ser	Leu Gly Ile Gly Leu Ser Met Ala Ile Val Gln			
145	150	155	160	
Val Thr Ser Val Phe	Gly Leu Pro Phe Cys Asp Gly Phe Val Ile Ala			
	165	170	175	
His Phe Phe Cys Asp	Val Arg Pro Leu Leu Lys Leu Ala Cys Thr Asp			
	180	185	190	
Thr Thr Ile Asn Glu Ile	Ile Asn Phe Ile Val Ser Val Cys Val Leu			
	195	200	205	
Val Leu Pro Met Gly Leu	Val Phe Ile Ser Tyr Val Val Ile Ile Ser			
	210	215	220	
Thr Ile Leu Lys Ile Ala	Ser Ala Glu Gly Arg Lys Lys Ala Phe Ala			
225	230	235	240	
Thr Cys Ala Ser His Leu	Thr Val Val Ile Ile His Tyr Gly Cys Ala			
	245	250	255	
Ser Ile Ile Tyr Leu Lys	Pro Lys Ser Gln Thr Ser Leu Gly Gln Asp			
	260	265	270	
Arg Leu Ile Ser Val Thr	Tyr Thr Val Ile Thr Pro Leu Leu Asn Pro			
	275	280	285	
Val Val Tyr Ser Leu Arg	Asn Lys Glu Val Lys Glu Ala Leu Arg Lys			
	290	295	300	
Ala Ile Gly Arg Arg Pro	Leu Ser Ser			
305	310			

<210> 1548  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1548

Met Asp Leu Thr Thr Trp Met Asn Asn Tyr Thr Thr Gln Ser Asp Phe	
1 5 10 15	
Thr Leu Val Gly Phe Phe Ser Gln Ser Lys His Ser Ala Leu Leu Ala	
20 25 30	
Val Val Ile Phe Val Val Phe Leu Met Ala Leu Ser Gly Asn Ala Leu	
35 40 45	
Leu Ile Leu Leu Val Leu Ser Asp Thr His Leu His Thr Pro Met Tyr	
50 55 60	
Phe Phe Ile Ser Gln Leu Ser Leu Met Asp Met Tyr Ile Ser Val	
65 70 75 80	
Thr Val Pro Lys Met Leu Met Asp Gln Val Leu Gly Ser His Lys Ile	
85 90 95	
Ser Ala Ala Ala Cys Gly Met Gln Met Phe Leu Tyr Val Thr Leu Ala	
100 105 110	
Gly Ser Glu Phe Phe Leu Leu Ala Ala Met Ser Tyr Asp Arg Tyr Val	
115 120 125	
Ala Ile Cys His Pro Leu Arg Tyr Pro Val Leu Met Asn Tyr Arg Val	
130 135 140	
Cys Leu Leu Leu Met Ser Val Cys Trp Ile Leu Gly Ser Leu Asp Gly	
145 150 155 160	
Phe Met Phe Thr Pro Val Thr Met Thr Phe Pro Phe Cys Gly Ser Arg	
165 170 175	
Glu Ile His His Phe Phe Cys Glu Val Pro Ala Val Thr Lys Leu Ser	
180 185 190	
Cys Ser Asp Thr Trp Leu Tyr Glu Thr Leu Met Tyr Val Cys Cys Val	
195 200 205	

Leu	Met	Leu	Leu	Ile	Pro	Val	Thr	Val	Ile	Ser	Gly	Ser	Tyr	Thr	Ser
210						215					220				
Ile	Leu	Leu	Thr	Val	Leu	Arg	Met	Asn	Ser	Ala	Glu	Gly	Arg	Lys	Lys
225					230					235					240
Ala	Leu	Ala	Thr	Cys	Ser	Ser	His	Met	Thr	Val	Val	Thr	Leu	Phe	Tyr
				245					250					255	
Gly	Ala	Ala	Ile	Tyr	Thr	Tyr	Ile	Phe	Pro	Ala	Ser	Leu	His	Thr	Pro
			260				265						270		
Glu	Lys	Asp	Met	Val	Val	Ser	Val	Phe	Tyr	Thr	Ile	Leu	Thr	Pro	Leu
		275					280					285			
Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Phe	Arg	Asn	Lys	Asn	Val	Thr	Glu	Ala
	290					295					300				
Met	Lys	Lys	Leu	Leu	Val	Val	Ser	Thr	Leu	Phe					
305					310					315					

<210> 1549  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1549

Met	Gly	Ser	Glu	His	Trp	Asn	Tyr	Ser	Thr	Ala	Gly	Phe	Val	Leu	Thr
1				5					10					15	
Ser	Leu	Phe	Asn	Asn	Ser	Gln	Thr	His	Leu	Phe	Leu	Phe	Ser	Met	Val
			20					25					30		
Met	Leu	Val	Tyr	Ile	Leu	Ala	Met	Ala	Gly	Asn	Thr	Ala	Met	Val	Leu
		35					40					45			
Leu	Ile	Trp	Met	Asp	Thr	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu
	50					55				60					
Ser	Gln	Leu	Ser	Phe	Leu	Asp	Ile	Phe	Phe	Thr	Ser	Val	Thr	Val	Pro
65					70					75					80
Lys	Met	Ile	Val	Gly	Phe	Leu	Phe	Gly	Trp	Thr	Ser	Ile	Ser	Phe	Gly
				85				90						95	
Gly	Cys	Gly	Ala	Gln	Met	Phe	Phe	Phe	Met	Phe	Leu	Gly	Ala	Ala	Glu
			100					105					110		
Cys	Leu	Leu	Leu	Ala	Leu	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
		115					120					125			
Asn	Pro	Leu	Arg	Tyr	Pro	Val	Leu	Met	Ser	Arg	Arg	Val	Cys	Leu	Leu
	130					135					140				
Met	Val	Val	Ala	Ser	Trp	Leu	Gly	Gly	Ser	Leu	Asn	Ala	Ser	Ile	Gln
145					150					155					160
Thr	Ser	Leu	Thr	Leu	Gln	Phe	Pro	Tyr	Cys	Gly	Ser	Arg	Lys	Ile	Ser
				165					170					175	
His	Phe	Phe	Cys	Glu	Val	Pro	Ser	Leu	Leu	Met	Leu	Ala	Cys	Ala	Asp
			180					185					190		
Thr	Glu	Ala	Tyr	Lys	Gln	Val	Leu	Phe	Val	Thr	Gly	Val	Val	Val	Leu
		195					200					205			
Leu	Val	Pro	Ile	Thr	Phe	Ile	Thr	Ala	Ser	Tyr	Ala	Leu	Ile	Leu	Ala
	210					215					220				
Ala	Val	Leu	Arg	Met	His	Ser	Val	Glu	Gly	Arg	Gln	Lys	Ala	Leu	Ala
225					230					235					240
Thr	Cys	Ser	Ser	His	Leu	Thr	Val	Val	Asn	Leu	Phe	Tyr	Gly	Pro	Leu
				245					250					255	
Val	Tyr	Thr	Tyr	Met	Leu	Pro	Ala	Ser	Tyr	His	Ser	Pro	Gly	Gln	Asp
			260					265					270		
Asp	Val	Val	Ser	Val	Phe	Tyr	Thr	Val	Leu	Thr	Pro	Met	Leu	Asn	Pro

	275		280		285										
Val	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Thr	Gly	Ala	Met	Lys	Lys
	290					295					300				
Ala	Met	Arg	Arg	Cys	Gly	Val	Asn	Arg	Asn	Ala					
305					310					315					

<210> 1550  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1550															
Met	Ala	Trp	Ala	Gly	Asn	Gln	Thr	Leu	Ile	Ser	His	Phe	Val	Leu	Leu
1				5					10					15	
Gly	Leu	Phe	Thr	His	Ser	Pro	Leu	His	Leu	Phe	Leu	Phe	Ser	Ile	Ile
			20					25					30		
Met	Val	Met	Phe	Leu	Val	Ala	Leu	Ser	Gly	Asn	Gly	Leu	Met	Ile	Leu
		35					40					45			
Leu	Ile	Leu	Met	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Ser	Trp	Leu	Ser	Leu	Met	Asp	Leu	Met	Leu	Ile	Ser	Thr	Ile	Val	Pro
65					70					75					80
Arg	Met	Ala	Ala	Asp	Phe	Leu	Leu	Gly	Arg	Gly	Ser	Ile	Ser	Phe	Ala
				85					90					95	
Gly	Cys	Gly	Leu	Gln	Ile	Leu	Phe	Phe	Leu	Thr	Leu	Leu	Gly	Asp	Glu
			100					105					110		
Cys	Phe	Leu	Leu	Ala	Phe	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Ser
		115					120					125			
Asn	Pro	Leu	Arg	Tyr	Ser	Val	Ile	Met	Ser	Arg	Arg	Val	Cys	Trp	Leu
	130					135					140				
Met	Val	Ala	Gly	Ser	Trp	Leu	Phe	Gly	Leu	Val	Asp	Gly	Leu	Ile	Gln
145					150					155					160
Ala	Val	Phe	Thr	Leu	Arg	Phe	Pro	Tyr	Cys	Gly	Ser	Gln	Glu	Ile	Asp
				165				170						175	
His	Phe	Phe	Cys	Glu	Val	Pro	Ala	Val	Leu	Lys	Leu	Ala	Cys	Ala	Asp
			180					185					190		
Thr	Ser	Leu	Tyr	Glu	Thr	Met	Ile	Tyr	Val	Cys	Cys	Val	Leu	Met	Leu
		195				200						205			
Leu	Leu	Pro	Phe	Ser	Val	Ile	Ser	Ala	Ser	Tyr	Leu	Arg	Ile	Leu	Val
	210					215					220				
Ala	Val	Leu	Arg	Met	Arg	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ala
225					230					235					240
Thr	Cys	Ser	Ser	His	Met	Ile	Val	Val	Ser	Leu	Phe	Tyr	Gly	Ala	Ala
				245					250					255	
Met	Ile	Thr	Tyr	Met	Arg	Pro	Gln	Ala	Tyr	His	Ser	Ser	Lys	Gln	Asp
		260						265					270		
Lys	Val	Val	Ser	Ala	Phe	Tyr	Thr	Met	Ile	Thr	Pro	Met	Leu	Asn	Pro
		275					280					285			
Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Thr	Gly	Ala	Leu	Arg	Lys
	290					295					300				
Leu	Leu	Gly	Lys	Cys	Pro	Cys	Gly	Gly	Gly	Thr	Leu	Gly			
305					310					315					

<210> 1551  
 <211> 315

<212> PRT  
<213> Mus musculus

<400> 1551

Met	Gly	Ile	Trp	Leu	Asn	Glu	Ser	Ser	Val	Asp	Gly	Phe	Ile	Leu	Leu
1				5					10					15	
Gly	Ile	Phe	Ser	Gln	Ser	Gln	Thr	Asp	Leu	Leu	Leu	Phe	Ser	Thr	Val
			20					25					30		
Met	Leu	Val	Phe	Thr	Val	Ala	Leu	Cys	Gly	Asn	Val	Leu	Leu	Ile	Leu
		35					40					45			
Leu	Ile	Tyr	Thr	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Ser	Gln	Leu	Ser	Leu	Met	Asp	Leu	Met	Leu	Val	Cys	Asn	Ile	Val	Pro
65					70					75					80
Lys	Met	Ala	Val	Asn	Phe	Leu	Ser	Gly	Arg	Lys	Ser	Ile	Ser	Phe	Ala
				85					90					95	
Gly	Cys	Gly	Ile	Gln	Ile	Gly	Phe	Phe	Val	Ser	Leu	Val	Gly	Ser	Glu
			100					105					110		
Gly	Leu	Leu	Leu	Gly	Leu	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Ser
		115					120					125			
His	Pro	Leu	His	Tyr	Pro	Ile	Leu	Met	Ser	Gln	Lys	Val	Cys	Leu	Gln
	130					135					140				
Ile	Ala	Gly	Ser	Ser	Trp	Ala	Phe	Gly	Ile	Leu	Asp	Gly	Ile	Ile	Gln
145					150					155					160
Met	Val	Ala	Ala	Met	Ser	Leu	Pro	Tyr	Cys	Gly	Ser	Arg	Tyr	Ile	Asp
				165					170					175	
His	Phe	Phe	Cys	Glu	Val	Pro	Ala	Leu	Lys	Leu	Ala	Cys	Ala	Asp	
			180					185				190			
Thr	Ser	Leu	Phe	Asp	Thr	Leu	Leu	Phe	Ala	Cys	Cys	Val	Phe	Met	Leu
		195					200					205			
Leu	Leu	Pro	Phe	Ser	Ile	Ile	Val	Thr	Ser	Tyr	Ala	Arg	Ile	Leu	Gly
		210				215					220				
Ala	Val	Leu	Arg	Met	His	Ser	Ala	Gln	Ser	Arg	Lys	Lys	Ala	Leu	Ala
225					230					235					240
Thr	Cys	Ser	Ser	His	Leu	Thr	Ala	Val	Ser	Leu	Phe	Tyr	Gly	Ala	Ala
				245					250					255	
Met	Phe	Ile	Tyr	Leu	Arg	Pro	Arg	Arg	Tyr	Arg	Ala	Pro	Ser	His	Asp
			260					265					270		
Lys	Val	Val	Ser	Ile	Phe	Tyr	Thr	Val	Leu	Thr	Pro	Met	Leu	Asn	Pro
		275					280					285			
Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Glu	Val	Met	Gly	Ala	Leu	Arg	Lys
	290					295					300				
Gly	Leu	Asp	Arg	Cys	Arg	Val	Gly	Ser	Gln	His					
305					310					315					

<210> 1552  
<211> 316  
<212> PRT  
<213> Mus musculus

<400> 1552

Met	Pro	Leu	Asn	Ala	Gln	Lys	Thr	Met	Glu	Asn	Asp	Ser	Ser	Val	Ser
1				5					10					15	
Glu	Phe	Ile	Leu	Met	Gly	Leu	Thr	Asp	Gln	Pro	Glu	Leu	Gln	Leu	Pro
			20					25					30		
Leu	Phe	Val	Leu	Phe	Leu	Val	Asn	Tyr	Thr	Val	Thr	Val	Met	Gly	Asn



Phe	Val	Asn	Ser	Glu	Cys	Tyr	Val	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg
	115						120					125			
Tyr	Val	Ala	Ile	Cys	His	Pro	Leu	Gln	Tyr	Thr	Thr	Val	Met	Ser	Pro
	130					135					140				
Lys	Ile	Cys	Cys	Leu	Leu	Val	Phe	Gly	Ser	Tyr	Leu	Met	Gly	Phe	Ala
145					150					155					160
Gly	Ala	Leu	Thr	His	Thr	Gly	Phe	Met	Ile	Arg	Leu	Arg	Phe	Cys	Asn
			165						170					175	
Ser	Asn	Ile	Ile	Asn	His	Tyr	Met	Cys	Asp	Ile	Phe	Pro	Leu	Leu	Gln
		180						185					190		
Leu	Ser	Cys	Thr	Ser	Thr	Tyr	Val	Asn	Glu	Leu	Val	Ser	Ser	Ala	Val
	195						200					205			
Val	Gly	Thr	Ile	Ile	Ile	Leu	Ser	Ser	Ile	Ile	Ile	Leu	Val	Ser	Tyr
	210					215					220				
Ala	Met	Ile	Leu	Ser	Asn	Ile	Leu	His	Met	Ser	Ser	Ser	Lys	Gly	Trp
225					230					235					240
Ser	Lys	Ala	Leu	Gly	Thr	Cys	Gly	Ser	His	Ile	Ile	Thr	Val	Ser	Leu
			245						250					255	
Phe	Tyr	Gly	Ser	Gly	Leu	Leu	Ala	Tyr	Ile	Lys	Pro	Thr	Ser	Ala	Glu
		260						265					270		
Thr	Val	Asp	Gln	Gly	Lys	Phe	Leu	Ser	Ile	Phe	Tyr	Thr	Leu	Val	Ile
	275						280					285			
Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys
	290					295					300				
Leu	Ala	Val	Lys	Arg	Thr	Met	Lys	Arg	Val	Thr	Ser				
305					310					315					

<210> 1554  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1554

Met	Gly	Leu	Glu	Asn	Gly	Ser	Leu	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Thr	Asn	Asp	Pro	Asp	Leu	Gln	Leu	Pro	Leu	Phe	Leu	Leu	Phe	Leu
		20						25					30		
Leu	Ile	Tyr	Thr	Thr	Thr	Ala	Val	Gly	Asn	Leu	Ala	Leu	Ile	Thr	Leu
	35					40						45			
Ile	Ala	Leu	Asn	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Leu
	50					55					60				
Asn	Leu	Ser	Cys	Ile	Asp	Leu	Cys	Tyr	Ser	Ser	Val	Ile	Thr	Pro	Lys
65					70					75				80	
Met	Leu	Met	Asn	Phe	Leu	Val	Arg	Lys	Asn	Ile	Ile	Ser	Tyr	Met	Gly
			85						90					95	
Cys	Met	Thr	Gln	Leu	Tyr	Phe	Phe	Cys	Phe	Phe	Ala	Ile	Cys	Glu	Cys
		100						105				110			
Cys	Val	Leu	Thr	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
	115						120					125			
Pro	Leu	Leu	Tyr	Asn	Ile	Thr	Met	Ser	Pro	Lys	Val	Cys	Ser	Tyr	Leu
	130					135					140				
Met	Leu	Gly	Ser	Tyr	Ile	Met	Gly	Phe	Ser	Gly	Ala	Met	Ile	His	Thr
145					150					155				160	
Gly	Cys	Ile	Leu	Arg	Leu	Thr	Phe	Cys	Asp	Arg	Asn	Ile	Ile	Asn	His
			165						170					175	
Tyr	Phe	Cys	Asp	Leu	Phe	Pro	Leu	Leu	Gln	Leu	Ser	Cys	Thr	Ser	Thr





Phe	Met	Tyr	Leu	Gln	Pro	Ser	Ser	Pro	Glu	Ser	Met	Asp	Gln	Gly	Lys
			260					265					270		
Arg	Ser	Ser	Val	Phe	Tyr	Thr	Ile	Leu	Val	Pro	Met	Met	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Ile	Ala	Leu	Lys	Lys	Thr
	290					295					300				
Phe	Ser	Thr	Gln	Ser	Val										
305					310										

<210> 1556  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 1556

Met	Arg	Val	Met	Lys	Gln	Met	Val	Ser	Glu	Ser	Asn	Tyr	Ser	Val	Thr
1				5					10					15	
Glu	Phe	Ile	Phe	Met	Gly	Leu	Thr	Val	Gln	Arg	Glu	Phe	Gln	Leu	Pro
			20					25					30		
Leu	Phe	Val	Leu	Phe	Leu	Leu	Asn	Tyr	Thr	Ala	Thr	Val	Val	Gly	Asn
		35					40					45			
Leu	Ser	Leu	Met	Asn	Leu	Ile	Cys	Leu	Asn	Ser	His	Leu	His	Thr	Pro
	50					55					60				
Met	Tyr	Phe	Phe	Ile	Phe	Asn	Leu	Ser	Cys	Ile	Asp	Phe	Cys	Tyr	Ser
65					70					75					80
Leu	Val	Cys	Asn	Pro	Thr	Met	Leu	Thr	Ser	Phe	Val	Ser	Glu	His	Asn
				85					90					95	
Thr	Ile	Ser	Tyr	Ala	Gly	Cys	Met	Ser	Gln	Leu	Phe	Leu	Phe	Cys	Phe
			100					105					110		
Phe	Ala	Asn	Ser	Glu	Cys	Tyr	Val	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg
		115					120					125			
Tyr	Val	Ala	Ile	Cys	His	Pro	Leu	Lys	Tyr	Thr	Thr	Val	Met	Ser	Pro
	130					135					140				
Lys	Ile	Cys	Ser	Leu	Leu	Val	Phe	Gly	Ser	Tyr	Leu	Met	Gly	Phe	Ala
145					150					155					160
Gly	Ala	Met	Thr	His	Thr	Gly	Phe	Met	Ile	Arg	Leu	Ser	Phe	Cys	Asn
				165					170					175	
Ser	Asn	Ile	Ile	Asn	His	Tyr	Met	Cys	Asp	Ile	Phe	Pro	Leu	Leu	Gln
		180						185					190		
Leu	Ser	Cys	Thr	Ser	Thr	Tyr	Val	Asn	Glu	Leu	Val	Ser	Ser	Ala	Val
		195					200					205			
Val	Gly	Thr	Ile	Ile	Ile	Leu	Ser	Ser	Leu	Ile	Ile	Leu	Val	Ser	Tyr
	210					215					220				
Ala	Met	Ile	Leu	Ser	Asn	Ile	Leu	His	Met	Ser	Ser	Ser	Lys	Gly	Trp
225					230					235					240
Ser	Lys	Ala	Leu	Gly	Thr	Cys	Gly	Ser	His	Ile	Ile	Thr	Val	Ser	Leu
				245					250					255	
Phe	Tyr	Gly	Ser	Gly	Leu	Leu	Ala	Tyr	Val	Lys	Pro	Ser	Ser	Ala	Glu
			260					265					270		
Thr	Val	Gly	Gln	Gly	Lys	Ile	Phe	Ser	Val	Phe	Tyr	Thr	Leu	Val	Val
		275					280					285			
Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys
	290					295					300				
Phe	Ala	Val	Lys	Arg	Thr	Met	Lys	Arg	Val	Thr	Ser				
305					310						315				

<210> 1557  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1557

Met	Lys	Gln	Met	Ala	Thr	Lys	Asn	Asp	Ser	Ser	Val	Ser	Glu	Phe	Ile
1				5					10					15	
Leu	Met	Gly	Leu	Thr	Asp	Gln	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Phe
		20						25					30		
Leu	Phe	Leu	Leu	Asn	His	Thr	Val	Ile	Val	Val	Gly	Asn	Leu	Ser	Leu
		35					40					45			
Met	Ser	Leu	Ile	Ile	Leu	Asn	Ser	Asn	Leu	His	Thr	Pro	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Phe	Asn	Leu	Ser	Phe	Ile	Asp	Phe	Cys	Tyr	Ser	Phe	Val	Phe
65					70					75					80
Thr	Pro	Lys	Met	Leu	Met	Ser	Phe	Val	Ser	Glu	Lys	Asn	Ile	Ile	Pro
			85						90					95	
Phe	Thr	Gly	Cys	Met	Thr	Gln	Leu	Phe	Phe	Phe	Cys	Phe	Phe	Ala	His
		100						105					110		
Ser	Glu	Ser	Trp	Val	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala
	115						120					125			
Ile	Cys	Lys	Pro	Leu	Leu	Tyr	Lys	Ala	Ile	Met	Leu	Pro	Arg	Ile	Cys
	130					135					140				
Cys	Leu	Leu	Met	Phe	Val	Ser	Tyr	Leu	Ile	Gly	Phe	Ala	Ser	Ala	Met
145					150					155					160
Val	Leu	Ala	Gly	Leu	Met	Ile	Arg	Leu	Asn	Phe	Cys	Asn	Asn	Asn	Ile
			165						170					175	
Ile	Asn	His	Tyr	Met	Cys	Asp	Ile	Phe	Pro	Val	Leu	Arg	Ile	Ser	Cys
		180						185					190		
Ser	Asn	Thr	Tyr	Leu	Asn	Glu	Leu	Val	Ser	Thr	Ala	Val	Val	Gly	Thr
	195						200					205			
Ala	Ile	Ile	Leu	Cys	Ser	Leu	Ile	Ile	Phe	Ile	Ser	Tyr	Ala	Met	Ile
	210					215					220				
Leu	Phe	Asn	Ile	Ile	His	Met	Ser	Ser	Gly	Lys	Gly	Trp	Ser	Lys	Ala
225					230					235					240
Leu	Gly	Thr	Cys	Gly	Ser	His	Ile	Ile	Thr	Val	Ser	Phe	Phe	Tyr	Gly
			245						250					255	
Ser	Gly	Leu	Leu	Ala	Tyr	Val	Lys	Pro	Ser	Ser	Ala	Glu	Thr	Val	Gly
		260						265					270		
Gln	Gly	Lys	Phe	Phe	Ser	Val	Phe	Tyr	Thr	Phe	Leu	Val	Pro	Met	Leu
	275						280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Val	Ala	Val
	290					295					300				
Lys	Lys	Thr	Ile	Lys	Arg	Ile	Thr	Ser							
305						310									

<210> 1558  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1558

Met	Ile	Ser	Met	Leu	Ala	Gly	Asn	Gly	Ser	Ser	Val	Thr	Glu	Phe	Val
1				5					10					15	

Leu Ala Gly Leu Thr Asp Arg Pro Glu Leu Gln Leu Pro Leu Phe Tyr  
                   20                                  25                                  30  
 Leu Phe Leu Ile Ile Tyr Ile Ile Thr Val Val Gly Asn Leu Gly Leu  
                   35                                  40                                  45  
 Ile Ile Leu Ile Gly Leu Asn Pro His Leu His Thr Pro Met Tyr Tyr  
                   50                                  55                                  60  
 Phe Leu Phe Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Ser Val Phe  
 65                                  70                                  75                                  80  
 Ser Pro Lys Met Leu Ile Asn Phe Val Ser Glu Lys Asn Ser Ile Ser  
                                   85                                  90                                  95  
 Tyr Ala Gly Cys Met Thr Gln Leu Phe Leu Phe Leu Phe Phe Val Ile  
                                   100                                  105                                  110  
 Ser Glu Cys Tyr Met Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala  
                                   115                                  120                                  125  
 Ile Cys Asn Pro Leu Leu Tyr Lys Val Thr Met Ser Pro Gln Ile Cys  
                                   130                                  135                                  140  
 Ser Val Ile Ser Phe Ala Ala Tyr Gly Met Gly Phe Ala Gly Ser Ser  
 145                                  150                                  155                                  160  
 Ala His Thr Gly Cys Met Leu Arg Leu Thr Phe Cys Asn Val Asn Val  
                                   165                                  170                                  175  
 Ile Asn His Tyr Leu Cys Asp Ile Leu Pro Leu Leu Gln Leu Ser Cys  
                                   180                                  185                                  190  
 Thr Ser Thr Tyr Val Asn Glu Val Val Val Leu Ile Val Val Gly Ile  
                                   195                                  200                                  205  
 Asn Ile Thr Val Pro Ser Phe Thr Ile Leu Ile Ser Tyr Val Phe Ile  
                                   210                                  215                                  220  
 Leu Ala Asn Ile Leu Asn Ile Lys Ser Thr Gln Gly Arg Ala Lys Ala  
 225                                  230                                  235                                  240  
 Phe Ser Thr Cys Ser Ser His Ile Met Ala Ile Ser Leu Phe Phe Gly  
                                   245                                  250                                  255  
 Ser Ala Ala Phe Met Tyr Leu Lys Tyr Ser Ser Gly Ser Met Glu Gln  
                                   260                                  265                                  270  
 Gly Lys Ile Ser Ser Val Phe Tyr Thr Asn Val Gly Pro Met Leu Asn  
                                   275                                  280                                  285  
 Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Val Ala Leu Arg  
                                   290                                  295                                  300  
 Lys Ser Leu Ile Lys Phe Arg Glu Lys Thr Asp Phe Asn  
 305                                  310                                  315

<210> 1559

<211> 313

<212> PRT

<213> Mus musculus

<400> 1559

Met Met Gln Met Thr Met Glu Asn Lys Ser Ser Val Ser Glu Phe Ile  
   1                                  5                                  10                                  15  
 Leu Met Gly Leu Thr Asp Gln Pro Glu Leu Gln Leu Pro Leu Phe Val  
                   20                                  25                                  30  
 Leu Phe Leu Met Asn Tyr Thr Ala Thr Val Met Gly Asn Leu Ser Leu  
                   35                                  40                                  45  
 Met Asn Leu Ile Cys Leu Asn Ser Asn Leu His Thr Pro Met Tyr Phe  
                   50                                  55                                  60  
 Phe Ile Phe Asn Leu Ser Phe Ile Asp Phe Cys Tyr Ser Met Val Phe  
 65                                  70                                  75                                  80  
 Thr Pro Lys Met Leu Met Ser Phe Val Val Glu Lys Asn Thr Ile Ser



Gln	Thr	Val	Leu	Thr	Ser	Leu	Leu	Pro	Arg	Cys	Gly	Gln	Tyr	Gln	Ile
				165					170					175	
Glu	Asn	Phe	Phe	Cys	Glu	Val	Pro	Ala	Met	Leu	Gln	Leu	Ser	Cys	Val
			180					185					190		
Asp	Thr	Trp	Val	Asn	Glu	Val	Glu	Met	Tyr	Ala	Ala	Val	Val	Val	Ile
		195					200					205			
Lys	Val	Ile	Pro	Leu	Gly	Leu	Ile	Leu	Phe	Ser	Tyr	Ile	Asn	Ile	Val
	210					215					220				
Arg	Ala	Val	Ile	Lys	Ile	Gln	Ser	Ser	Glu	Gly	Arg	Lys	Lys	Ala	Phe
225					230					235					240
Asn	Thr	Cys	Gly	Ser	His	Leu	Leu	Val	Val	Ile	Met	Phe	Tyr	Gly	Ser
				245					250					255	
Ala	Ile	Ser	Gly	Tyr	Ala	Tyr	Met	Ala	Pro	Lys	Ser	Ser	Ser	Ala	Lys
			260					265					270		
Leu	Lys	Gly	Lys	Leu	Leu	Ala	Leu	Phe	Tyr	Gly	Leu	Ile	Thr	Pro	Met
		275					280					285			
Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Ala	Ala
	290					295					300				
Val	Lys	Lys	Val	Leu	Gly	Arg	Glu	Gln	Glu						
305						310									

<210> 1561  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1561

Met	Gly	Gln	Gln	Asn	Thr	Thr	Ser	Leu	Pro	Gly	Phe	Ile	Leu	Met	Gly
1				5					10					15	
Ile	Thr	Gln	Ser	Thr	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Gly	Val	Phe	Phe
			20					25					30		
Ile	Ile	Tyr	Ala	Val	Thr	Val	Met	Gly	Asn	Leu	Gly	Met	Ile	Ile	Leu
		35					40					45			
Thr	Lys	Leu	Asp	Ser	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Arg
	50					55					60				
His	Leu	Ala	Phe	Ile	Asp	Leu	Gly	Asn	Ser	Thr	Val	Ile	Cys	Pro	Lys
65					70				75					80	
Met	Leu	Met	Asp	Phe	Val	Met	Asp	Glu	Lys	Asn	Ile	Ser	Phe	Tyr	Ala
			85						90					95	
Cys	Ala	Thr	Gln	Met	Ser	Phe	Phe	Val	Leu	Phe	Ile	Ile	Ser	Glu	Leu
			100					105					110		
Phe	Ile	Leu	Ser	Ser	Met	Ala	Tyr	Asp	Cys	Tyr	Val	Ala	Ile	Cys	Asn
		115					120					125			
Pro	Leu	Leu	Tyr	Ser	Val	Ile	Met	Ser	Gln	Arg	Leu	Cys	His	Val	Leu
	130					135					140				
Val	Asp	Ile	Pro	Tyr	Leu	Tyr	Ser	Thr	Phe	Gln	Ala	Leu	Leu	Phe	Thr
145					150					155				160	
Ser	Lys	Ile	Phe	Thr	Leu	Thr	Phe	Cys	Gly	Ser	Asn	Ile	Ile	Ser	His
			165						170					175	
Phe	Tyr	Cys	Asp	Ala	Val	Tyr	Leu	Leu	Pro	Thr	Leu	Cys	Ser	Asn	Ala
			180				185					190			
Glu	Glu	Ile	Gln	Leu	Leu	Ile	Ile	Leu	Phe	Ser	Ala	Leu	Asn	Leu	Leu
		195					200					205			
Ser	Ser	Leu	Leu	Ile	Val	Leu	Gly	Leu	Tyr	Val	Leu	Ile	Leu	Ile	Ala
	210					215					220				
Ile	Cys	Arg	Met	His	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr

225		230		235		240
Cys Gly Ser His Leu Thr Val Val Val Val Phe Tyr Gly Thr Leu Leu						
	245		250		255	
Phe Met Tyr Leu Gln Pro Lys Ser Thr Asp Ser Leu Glu Asn Asp Lys						
	260		265		270	
Ile Thr Ser Val Phe Tyr Thr Leu Val Ile Pro Met Ile Asn Pro Leu						
	275		280		285	
Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Asn Ala Phe Asn Arg Ala						
	290		295		300	
Leu Lys Asn Pro Phe Lys Ile Asn Thr						
305	310					

<210> 1562  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1562

Met Lys His Ser Asn Asp Ser Lys Val Thr Glu Phe Ile Leu Leu Gly						
1	5	10	15			
Phe Ala Gly Gln Asn Glu Ser Trp His Ile Leu Phe Val Val Phe Leu						
	20	25	30			
Val Ile Tyr Ile Ala Thr Leu Val Gly Asn Ile Gly Met Ile Leu Leu						
	35	40	45			
Ile Lys Leu His Ser Ser Leu His Thr Pro Met Tyr Phe Phe Leu Gln						
	50	55	60			
His Leu Ala Phe Val Asp Leu Cys Tyr Ser Ser Ala Ile Thr Pro Arg						
65	70	75	80			
Thr Leu Gln Asn Phe Val Ser Thr Lys Pro Ser Ile Ser Phe Thr Gly						
	85	90	95			
Cys Leu Ala Gln Leu Leu Val Tyr Gly Ile Phe Val Thr Ser Asp Cys						
	100	105	110			
Phe Ile Leu Ala Ala Met Ala Val Asp Arg Tyr Val Ala Ile Cys Asn						
	115	120	125			
Pro Leu Arg Tyr Pro Ile Ile Met Ser Gln Arg Leu Cys Ile Leu Leu						
	130	135	140			
Leu Leu Gly Ser Tyr Thr Met Gly Phe Leu Asn Ala Thr Val Asn Thr						
145	150	155	160			
Gly Phe Thr Phe Leu Ser Asn Phe Cys Lys Ser Asn Val Ile Asn His						
	165	170	175			
Phe Phe Cys Asp Val Pro Pro Ile Leu Ala Leu Ser Cys Ser Ser Ile						
	180	185	190			
Asp Leu Asn Ile Met Val Leu Thr Ile Phe Val Gly Phe Asn Leu Thr						
	195	200	205			
Phe Thr Val Ser Val Val Ile Leu Ser Tyr Thr Phe Ile Leu Ala Ala						
	210	215	220			
Ile Leu Arg Met Ser Ser Ala Ser Gly Arg Arg Lys Ala Phe Ser Thr						
225	230	235	240			
Cys Ala Ser His Met Thr Ala Val Thr Ile Phe Tyr Gly Thr Leu Ser						
	245	250	255			
Tyr Met Tyr Val Leu His Gly Thr Asn Arg Ser Gln Glu Gln Glu Lys						
	260	265	270			
Val Ala Ser Val Phe Tyr Gly Ile Met Ile Pro Met Leu Asn Pro Leu						
	275	280	285			
Ile Tyr Ser Leu Arg Asn Gln Asp Val Ile Glu Ala Leu Arg His Ile						
	290	295	300			

Gly Asn Lys Cys Phe  
305

<210> 1563  
<211> 311  
<212> PRT  
<213> Mus musculus

<400> 1563  
Met Arg Asn His Thr Val Thr Thr Phe Ile Leu Leu Gly Leu Thr Asp  
1 5 10 15  
Asp Gln Gln Leu Gln Val Leu Ile Phe Ile Ile Leu Phe Phe Thr Tyr  
20 25 30  
Ser Leu Ser Ile Ser Gly Asn Leu Ala Ile Ile Ser Leu Ile Leu Val  
35 40 45  
Asp Pro His Leu Lys Thr Ala Met Tyr Tyr Phe Leu Lys Asn Phe Ala  
50 55 60  
Val Leu Glu Ile Ser Phe Thr Ser Ala Ser Ile Pro Arg Tyr Leu Tyr  
65 70 75 80  
Asn Ile Ala Thr Gly Asp Lys Met Ile Thr Tyr Asn Ala Cys Val Ala  
85 90 95  
Gln Val Phe Phe Thr Asp Leu Phe Gly Val Thr Glu Phe Phe Leu Leu  
100 105 110  
Ala Ala Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Arg Pro Leu His  
115 120 125  
Tyr Leu Thr Ile Met Ser Thr Thr Val Cys Arg Arg Leu Val Phe Cys  
130 135 140  
Ser Trp Val Ala Gly Leu Phe Ile Leu Ile Pro Pro Leu Ser Leu Gly  
145 150 155 160  
Leu Asn Leu Gln Phe Cys Asp Ser Asn Ile Ile Asp His Phe Ile Cys  
165 170 175  
Asp Ala Ser Pro Leu Leu Lys Ile Ser Cys Ser Asp Thr Trp Phe Met  
180 185 190  
Glu Gln Thr Val Leu Ile Cys Ala Val Leu Thr Leu Ile Ile Thr Leu  
195 200 205  
Val Cys Val Val Leu Ser Tyr Val Asn Ile Ile Lys Thr Val Leu Arg  
210 215 220  
Phe Pro Ser Ala Gln Gln Lys Lys Lys Ala Phe Ser Thr Cys Ser Ser  
225 230 235 240  
His Met Ile Val Val Ser Ile Thr Tyr Gly Ser Cys Ile Phe Ile Tyr  
245 250 255  
Ile Lys Pro Ser Ala Lys Asp Glu Val Ala Ile Asn Lys Gly Val Thr  
260 265 270  
Val Leu Thr Thr Ser Ile Ala Pro Met Leu Asn Pro Phe Ile Tyr Thr  
275 280 285  
Leu Arg Asn Arg Gln Val Lys Gln Ala Phe Trp Asp Ser Ile Lys Arg  
290 295 300  
Ile Ile Ala Phe Ser Lys Gln  
305 310

<210> 1564  
<211> 312  
<212> PRT  
<213> Mus musculus

<400> 1564

Met	Lys	Asn	Tyr	Thr	Ala	Ile	Thr	Thr	Phe	Ile	Leu	Val	Gly	Leu	Thr
1				5					10					15	
Asn	Asp	Ala	Asn	Leu	Gln	Ile	Leu	Leu	Phe	Ile	Phe	Leu	Leu	Leu	Thr
			20					25					30		
Tyr	Leu	Leu	Ser	Val	Ile	Gly	Asn	Leu	Thr	Ile	Ile	Thr	Leu	Thr	Leu
		35					40					45			
Val	Asp	Ser	His	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe
	50					55					60				
Ser	Leu	Leu	Glu	Val	Ser	Phe	Thr	Thr	Val	Cys	Ile	Pro	Arg	Phe	Leu
65					70					75					80
Tyr	Thr	Met	Ala	Ser	Gly	Asp	Asn	Thr	Ile	Thr	Tyr	Asn	Ala	Cys	Ala
				85					90					95	
Thr	Gln	Leu	Phe	Phe	Val	Ile	Val	Leu	Gly	Val	Thr	Glu	Phe	Phe	Leu
			100					105					110		
Leu	Thr	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Thr	Thr	Ile	Met	Ser	Asn	Arg	Val	Cys	Ile	Gln	Phe	Leu	Ile
	130				135						140				
Gly	Cys	Tyr	Leu	Met	Ala	Leu	Ile	Ile	Val	Ile	Pro	Pro	Tyr	Ser	Ile
145					150					155					160
Ser	Phe	Lys	Leu	Glu	Phe	Cys	Asn	Ser	Asn	Val	Ile	Asp	His	Phe	Gly
			165						170					175	
Cys	Asp	Ala	Ala	Pro	Ile	Leu	Lys	Ile	Ser	Cys	Ser	Asn	Thr	Glu	Phe
			180					185					190		
Ile	Glu	Arg	Phe	Val	Leu	Ile	Leu	Ala	Val	Leu	Thr	Leu	Met	Phe	Thr
	195						200					205			
Leu	Leu	Cys	Val	Val	Met	Ser	Tyr	Thr	Tyr	Ile	Ile	Arg	Thr	Ile	Leu
	210					215					220				
Arg	Phe	Pro	Ser	Ala	Gln	Gln	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser
225					230					235					240
Ser	His	Ile	Ile	Val	Val	Ser	Ile	Thr	Tyr	Gly	Ser	Cys	Ile	Phe	Ile
			245						250					255	
Tyr	Ile	Lys	Pro	Ser	Ala	Lys	Glu	Gly	Val	Ala	Val	Asn	Lys	Val	Val
			260					265					270		
Ser	Val	Leu	Thr	Thr	Ser	Val	Ala	Pro	Val	Met	Asn	Pro	Phe	Ile	Tyr
	275					280						285			
Thr	Leu	Arg	Asn	Lys	Gln	Val	Val	Gln	Ala	Phe	Lys	Asp	Met	Ile	Lys
	290					295						300			
Arg	Ile	Ala	Ser	Ile	Ile	Lys	Ser								
305					310										

<210> 1565

<211> 311

<212> PRT

<213> Mus musculus

<400> 1565

Met	Arg	Asn	His	Thr	Val	Thr	Thr	Phe	Ile	Leu	Leu	Gly	Leu	Thr	Glu
1				5				10						15	
Asp	Pro	Gln	Ile	Gln	Ser	Leu	Leu	Leu	Ile	Phe	Leu	Leu	Leu	Thr	Tyr
			20					25					30		
Leu	Leu	Asn	Ile	Thr	Gly	Asn	Leu	Thr	Ile	Ile	Leu	Leu	Thr	Leu	Ile
		35				40						45			
Asp	Pro	His	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gln	Asn	Phe	Ser
	50					55					60				



Phe	Leu	Glu	Ile	Leu	Phe	Thr	Ser	Ala	Cys	Ile	Pro	Arg	Tyr	Leu	Tyr
65					70					75					80
Asn	Leu	Ala	Thr	Gly	Asp	Lys	Thr	Ile	Thr	Tyr	Gly	Ala	Cys	Ala	Ser
				85					90					95	
Gln	Ala	Phe	Phe	Thr	Asp	Leu	Phe	Gly	Val	Thr	Glu	Phe	Phe	Leu	Leu
			100					105					110		
Ala	Thr	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	His
		115					120					125			
Tyr	Thr	Thr	Ile	Met	Ser	Thr	Ala	Cys	Arg	Arg	Leu	Leu	Leu	Cys	Cys
	130					135					140				
Trp	Val	Ala	Gly	Val	Ile	Ile	Ile	Leu	Pro	Pro	Phe	Ser	Leu	Ser	Gln
145					150					155					160
Asn	Leu	Gln	Phe	Cys	Asp	Ser	Asn	Ile	Ile	Asp	Ser	Phe	Leu	Cys	Asp
				165					170					175	
Val	Ser	Pro	Phe	Leu	Lys	Ile	Ser	Cys	Ser	Asp	Thr	Trp	Val	Ile	Glu
			180					185					190		
Gln	Met	Val	Ile	Gly	Cys	Ala	Val	Leu	Thr	Phe	Ile	Thr	Thr	Leu	Phe
		195					200					205			
Cys	Val	Val	Leu	Ser	Tyr	Val	Tyr	Ile	Ile	Lys	Thr	Ile	Leu	Lys	Phe
	210					215					220				
Pro	Ser	Ala	Gln	Gln	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His
225					230					235					240
Met	Ile	Val	Val	Ser	Ile	Thr	Tyr	Gly	Ser	Cys	Ile	Phe	Ile	Tyr	Val
				245					250					255	
Lys	Pro	Ser	Ala	Lys	Asp	Ser	Val	Ala	Ile	Asn	Lys	Gly	Val	Ile	Val
			260					265					270		
Leu	Thr	Thr	Ser	Ile	Ala	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr	Thr	Leu
		275					280					285			
Arg	Asn	Lys	Gln	Val	Lys	Gln	Ala	Phe	Asn	Asp	Ser	Ile	Lys	Lys	Ile
	290					295					300				
Ala	Leu	Glu	Cys	Gln	Asn	Gly									
305					310										

<210> 1566  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1566

Met	Gly	Asp	Asp	Asn	Asp	Thr	Asp	Ile	Thr	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Gly	Tyr	Gly	Phe	Leu	Gln	Gly	His	Leu	Phe	Trp	Gly	Val	Leu
			20					25					30		
Cys	Ile	Tyr	Val	Val	Thr	Leu	Leu	Gly	Asn	Ser	Leu	Ile	Val	Leu	Leu
		35					40					45			
Thr	Leu	Ala	Asp	Ser	Ala	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Arg
	50					55					60				
His	Phe	Ser	Val	Val	Glu	Ile	Leu	Tyr	Thr	Thr	Thr	Ile	Val	Pro	Arg
65					70					75					80
Met	Leu	Ala	Asp	Leu	Arg	Ser	Ser	Cys	Pro	Thr	Ile	Pro	Leu	Ala	Ser
			85					90						95	
Cys	Phe	Thr	Gln	Leu	Tyr	Phe	Phe	Ala	Leu	Phe	Gly	Ile	Ala	Glu	Cys
			100					105					110		
Cys	Leu	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Cys
		115					120					125			
Pro	Leu	His	Tyr	Thr	Thr	Leu	Met	Ser	Gln	Gly	Thr	Tyr	Thr	Gly	Leu

130		135		140
Val Gly Ala Ser Tyr	Leu Ala Gly Val Ile Ser Gly Thr Thr His Ser			
145	150	155	160	
Ile Phe Ile Phe Thr	Leu Pro Phe Arg Gly Ala Lys Thr Ile His His			
	165	170	175	
Phe Leu Cys Asp Ile	Leu Pro Val Leu Arg Leu Ala Thr Ala Ser Thr			
	180	185	190	
Phe Trp Gly Glu Val Gly Asn	Leu Phe Val Thr Ile Thr Phe Ile Phe			
	195	200	205	
Ala Pro Phe Leu Leu Ile	Val Ala Ser Tyr Ala Cys Ile Leu Ala Thr			
	210	215	220	
Ile Leu Gly Val Ala Thr	Ser Gln Gly Arg Gln Lys Leu Phe Ser Thr			
225	230	235	240	
Cys Ser Ser His Leu Phe	Val Val Ile Leu Phe Phe Gly Thr Gly Thr			
	245	250	255	
Val Ala Tyr Met Arg	Pro Gln Ala Asp Ser Phe Gly Asp Thr Asp Gln			
	260	265	270	
Ile Ile Thr Leu Phe Tyr	Thr Val Val Thr Pro Met Cys Asn Pro Phe			
	275	280	285	
Val Tyr Thr Leu Arg Asn	Lys Glu Val Thr Gly Ala Met Arg Arg Leu			
	290	295	300	
Val Lys Arg Tyr Phe				
305				

<210> 1567  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1567

Met Gly Asp Asp Asn Asp Thr Asp Ile Thr Glu Phe Ile Leu Leu Gly	
1 5 10 15	
Phe Ser Gly Tyr Gly Phe Leu Gln Gly His Leu Phe Trp Gly Val Leu	
20 25 30	
Cys Ile Tyr Val Val Thr Leu Leu Gly Asn Ser Leu Ile Val Leu Leu	
35 40 45	
Thr Leu Ala Asp Ser Ala Leu His Ser Pro Met Tyr Phe Phe Leu Arg	
50 55 60	
His Phe Ser Val Val Glu Ile Leu Tyr Thr Thr Ile Val Pro Arg	
65 70 75 80	
Met Leu Ala Asp Leu Arg Ser Ser Cys Pro Thr Ile Pro Leu Ala Ser	
85 90 95	
Cys Phe Thr Gln Leu Tyr Phe Phe Ala Leu Phe Gly Ile Ala Glu Cys	
100 105 110	
Cys Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Cys	
115 120 125	
Pro Leu His Tyr Thr Thr Leu Met Ser Gln Gly Thr Tyr Thr Gly Leu	
130 135 140	
Val Gly Ala Ser Tyr Leu Ala Gly Val Ile Ser Gly Thr Thr His Ser	
145 150 155 160	
Ile Phe Ile Phe Thr Leu Pro Phe Arg Gly Ala Lys Thr Ile His His	
165 170 175	
Phe Leu Cys Asp Ile Leu Pro Val Leu Arg Leu Ala Thr Ala Ser Thr	
180 185 190	
Phe Trp Gly Glu Val Gly Asn Leu Phe Val Thr Ile Thr Phe Ile Phe	
195 200 205	

Val	Pro	Phe	Leu	Leu	Ile	Val	Ala	Ser	Tyr	Ala	Cys	Ile	Leu	Val	Thr
210						215					220				
Ile	Leu	Gly	Val	Ala	Thr	Ser	Gln	Gly	Arg	Gln	Lys	Leu	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Leu	Phe	Val	Val	Ile	Leu	Phe	Phe	Gly	Thr	Ala	Thr
			245						250					255	
Val	Ala	Tyr	Met	Arg	Pro	Gln	Ala	Asp	Ser	Phe	Gly	Asn	Thr	Asp	Gln
			260					265					270		
Ile	Leu	Thr	Leu	Val	Tyr	Thr	Val	Val	Thr	Pro	Met	Cys	Asn	Pro	Phe
		275					280					285			
Val	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Thr	Gly	Ala	Met	Arg	Arg	Leu
	290					295					300				
Met	Lys	Arg	Tyr	Leu	Trp	Gly	Pro								
305						310									

<210> 1568  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1568

Met	Gly	Gly	Thr	Asn	Gln	Ser	Ser	Val	Ser	Glu	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Arg	Gln	Pro	Gln	Gln	Gln	Gln	Leu	Ile	Phe	Leu	Leu	Phe	
			20					25				30			
Leu	Ile	Met	Tyr	Leu	Ala	Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Leu
		35					40					45			
Ala	Ile	Ser	Thr	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Ser	Asn	Leu	Ser	Phe	Val	Asp	Val	Cys	Phe	Ser	Ser	Thr	Thr	Val	Pro
65					70					75					80
Lys	Val	Leu	Ala	Ile	His	Ile	Leu	Arg	Asn	Gln	Ala	Ile	Ser	Phe	Ser
			85						90					95	
Gly	Cys	Leu	Thr	Gln	Leu	Tyr	Phe	Leu	Cys	Val	Phe	Ala	Asp	Met	Asp
			100					105					110		
Asn	Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys
		115					120					125			
His	Pro	Leu	His	Tyr	Thr	Thr	Lys	Met	Thr	His	Gln	Leu	Cys	Ala	Phe
	130					135					140				
Leu	Val	Val	Gly	Ser	Trp	Met	Val	Ala	Ser	Leu	Asn	Ala	Leu	Leu	His
145					150					155					160
Thr	Leu	Leu	Val	Ala	Gln	Leu	Tyr	Phe	Cys	Gly	Asp	Asn	Val	Ile	Pro
			165						170					175	
His	Phe	Phe	Cys	Glu	Val	Thr	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp
			180					185					190		
Thr	His	Leu	Asn	Glu	Leu	Met	Ile	Leu	Ala	Val	Ala	Gly	Leu	Ile	Met
		195					200					205			
Leu	Ala	Pro	Phe	Val	Cys	Ile	Leu	Leu	Ser	Tyr	Ile	Leu	Ile	Ala	Cys
	210					215					220				
Ala	Ile	Leu	Lys	Ile	Ser	Ser	Thr	Gly	Arg	Trp	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ala	Val	Val	Cys	Leu	Phe	Tyr	Gly	Thr	Ile	Ile
			245						250					255	
Ser	Leu	Tyr	Phe	Asn	Pro	Ser	Ser	Ser	His	Ser	Ala	Gly	Arg	Asp	Met
			260					265					270		
Ala	Ala	Ala	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Met	Lys	Pro	Phe

	275		280		285
Ile	Tyr Ser Leu Arg Asn Arg Asp Met Lys Gly Ala Leu Arg Lys Val				
	290		295		300
Leu	Thr Met Arg Phe Ile Ser Thr Gln				
305		310			

<210> 1569  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1569																	
Met	Glu	Pro	Glu	Asn	His	Thr	Gly	Ile	Pro	Glu	Phe	Tyr	Leu	Leu	Gly		
1				5					10					15			
Leu	Ser	Glu	Asn	Pro	Glu	Ile	Gln	Ser	Val	Leu	Phe	Gly	Leu	Phe	Leu		
			20					25					30				
Ser	Leu	Tyr	Leu	Val	Thr	Val	Phe	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Ala		
		35					40					45					
Ile	Val	Ser	Asp	Pro	Lys	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser		
		50				55					60						
Asn	Leu	Ser	Phe	Ser	Asp	Ile	Cys	Phe	Thr	Ser	Thr	Thr	Val	Pro	Lys		
65				70					75						80		
Met	Leu	Leu	Gly	Ile	Gln	Thr	Gln	Ser	Lys	Leu	Ile	Thr	Tyr	Ala	Gly		
			85						90					95			
Cys	Ile	Thr	Gln	Met	Tyr	Phe	Phe	Thr	Val	Phe	Gly	Leu	Leu	Asp	Asn		
			100					105						110			
Leu	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His		
			115				120					125					
Pro	Leu	His	Tyr	Thr	Val	Leu	Met	Asn	Pro	Lys	Leu	Cys	Ser	Gln	Leu		
						135					140						
Leu	Leu	Leu	Ala	Trp	Leu	Ile	Ser	Ile	Leu	Gly	Ala	Leu	Pro	Glu	Ser		
145					150					155					160		
Leu	Thr	Ala	Leu	Arg	Leu	Ser	Phe	Cys	Ala	Val	Val	Glu	Ile	Pro	His		
				165					170					175			
Tyr	Phe	Cys	Glu	Leu	Pro	Glu	Val	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr		
			180				185						190				
Phe	Ile	Asn	Asn	Val	Val	Leu	Tyr	Ile	Val	Thr	Gly	Ile	Met	Gly	Phe		
		195					200					205					
Phe	Pro	Leu	Ala	Gly	Ile	Leu	Phe	Ser	Tyr	Ser	Gln	Ile	Val	Thr	Ser		
		210				215					220						
Val	Leu	Arg	Ile	Ser	Thr	Val	Gly	Gly	Lys	Tyr	Lys	Ala	Phe	Ser	Thr		
225				230						235					240		
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Cys	Leu		
			245						250					255			
Gly	Val	Tyr	Leu	Ser	Ser	Ile	Trp	Thr	Gln	Ala	Ser	Trp	Ala	Gly	Val		
			260				265						270				
Phe	Ala	Ser	Val	Leu	Tyr	Thr	Val	Val	Thr	Pro	Met	Met	Asn	Pro	Phe		
		275					280					285					
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Met	Lys	Arg	Ala	Leu	Asn	Thr	Leu		
		290				295					300						
Leu	Cys	Ser	Val	Pro	Ser	Ser	Ser										
305						310											

<210> 1570  
 <211> 319

<212> PRT

<213> Mus musculus

<400> 1570

Met	Val	Gln	Gly	Asn	Trp	Thr	Ser	Val	Thr	Val	Phe	Val	Phe	Leu	Gly
1				5					10					15	
Phe	Ser	His	Tyr	Pro	Arg	Ile	Glu	Val	Thr	Val	Phe	Val	Leu	Cys	Leu
			20					25					30		
Leu	Met	Tyr	Leu	Ile	Thr	Leu	Leu	Gly	Asn	Thr	Ile	Leu	Ile	Ser	Ile
		35					40					45			
Thr	Ile	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Leu	Asp	Ile	Trp	Tyr	Thr	Ser	Ser	Ala	Leu	Thr	Pro
65					70					75				80	
Met	Leu	Ala	Asn	Phe	Val	Ser	Gly	Lys	Asn	Thr	Ile	Ser	Phe	Ser	Gly
			85						90					95	
Cys	Ala	Ser	Gln	Met	Tyr	Phe	Ser	Leu	Ala	Met	Gly	Ser	Thr	Glu	Cys
			100					105					110		
Val	Leu	Leu	Ser	Met	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
	115						120					125			
Pro	Leu	Arg	Tyr	Pro	Ile	Ile	Met	Asn	Arg	Arg	Val	Phe	Val	Gln	Ile
	130				135						140				
Ala	Gly	Ser	Ser	Trp	Val	Thr	Gly	Cys	Leu	Thr	Ala	Leu	Val	Glu	Thr
145					150					155				160	
Gly	Pro	Val	Ile	His	Leu	Ser	Leu	Cys	Gly	Asn	Ser	Ile	Ile	Asn	His
			165						170					175	
Phe	Thr	Cys	Glu	Ile	Leu	Ala	Leu	Leu	Lys	Met	Ala	Cys	Gly	Asp	Thr
			180					185					190		
Ser	Met	Val	Gln	Leu	Ile	Met	Leu	Val	Ile	Ser	Ile	Leu	Leu	Leu	Pro
	195						200					205			
Leu	Pro	Met	Leu	Leu	Ile	Cys	Val	Ser	Tyr	Ala	Ser	Ile	Leu	Ser	Asn
	210					215					220				
Ile	Leu	Arg	Ile	Ser	Ser	Met	Asp	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr
225					230					235				240	
Cys	Ala	Ala	His	Leu	Thr	Val	Val	Val	Leu	Phe	Tyr	Gly	Thr	Ala	Leu
			245						250					255	
Ser	Met	Tyr	Leu	Lys	Pro	Ser	Ser	Val	Asn	Ser	Gln	Glu	Ile	Asp	Lys
		260						265					270		
Phe	Met	Ala	Leu	Ile	Tyr	Ala	Gly	Leu	Thr	Pro	Met	Leu	Asn	Pro	Ile
	275						280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Met	Ala	Val	Lys	Lys	Leu
	290					295					300				
Leu	Met	Arg	Asn	Pro	Phe	Ser	Ala	Ile	Leu	Thr	Ser	Val	Leu	Lys	
305					310					315					

<210> 1571

<211> 316

<212> PRT

<213> Mus musculus

<400> 1571

Met	Glu	Trp	Glu	Asn	Arg	Thr	Tyr	Leu	Glu	Glu	Phe	Phe	Leu	Lys	Gly
1				5					10					15	
Leu	Ser	Gly	Tyr	Pro	Gly	Leu	Glu	His	Leu	Phe	Phe	Val	Val	Ile	Leu
			20					25					30		
Met	Met	Tyr	Ala	Val	Ile	Leu	Val	Gly	Asn	Gly	Thr	Leu	Ile	Ile	Leu

	35					40					45				
Ser	Ile	Phe	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gly
	50					55					60				
Asn	Leu	Ser	Phe	Leu	Asp	Ile	Cys	Phe	Thr	Thr	Ser	Ser	Ile	Pro	Phe
65					70					75					80
Thr	Leu	Val	Ser	Phe	Leu	Ser	Glu	Arg	Lys	Thr	Ile	Ser	Phe	Leu	Gly
				85					90					95	
Cys	Ala	Val	Gln	Met	Phe	Leu	Gly	Leu	Ala	Met	Gly	Thr	Thr	Glu	Cys
			100					105					110		
Val	Leu	Leu	Gly	Met	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
	115					120						125			
Pro	Leu	Arg	Tyr	Pro	Leu	Ile	Met	Ser	Lys	Ser	Ser	Tyr	Val	Thr	Met
	130					135					140				
Ala	Thr	Gly	Ser	Trp	Phe	Ser	Gly	Val	Ala	Asn	Ser	Ala	Val	Gln	Thr
145					150					155					160
Ala	Phe	Val	Met	Arg	Leu	Pro	Phe	Cys	Gly	Asn	Val	Ile	Asn	His	Phe
				165					170					175	
Leu	Cys	Glu	Ile	Leu	Ala	Val	Met	Lys	Met	Ala	Cys	Thr	Asp	Ile	Ser
		180					185						190		
Gly	Asn	Glu	Phe	Ile	Met	Leu	Val	Ala	Thr	Thr	Leu	Phe	Thr	Leu	Met
	195					200					205				
Pro	Leu	Val	Leu	Ile	Val	Ile	Ser	Tyr	Ser	Leu	Ile	Ile	Ser	Ser	Ile
	210				215						220				
Leu	Ser	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ser	Ala	His	Phe	Thr	Val	Val	Ile	Ile	Phe	Tyr	Gly	Thr	Ile	Leu	Phe
				245					250					255	
Met	Tyr	Met	Lys	Pro	Lys	Ser	Lys	Asp	Lys	Phe	Asp	Ala	Asp	Asp	Leu
			260				265						270		
Asp	Ala	Thr	Asp	Lys	Leu	Ile	Ser	Met	Phe	Tyr	Gly	Val	Met	Thr	Pro
	275					280						285			
Leu	Met	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu
	290				295						300				
Ala	Ile	Lys	Asn	Leu	Lys	Gly	Arg	Leu	Leu	Gly	Lys				
305					310					315					

<210> 1572  
 <211> 305  
 <212> PRT  
 <213> Mus musculus

<400> 1572															
Met	Glu	Asn	His	Thr	Leu	Leu	Asp	Glu	Phe	Ile	Leu	Leu	Gly	Ile	Pro
1				5					10					15	
Gln	Thr	Gln	Gly	Leu	Glu	Thr	Leu	Leu	Phe	Val	Val	Phe	Leu	Phe	Ile
		20					25						30		
Tyr	Ile	Phe	Thr	Leu	Leu	Gly	Asn	Leu	Leu	Ile	Phe	Thr	Ala	Ile	Val
	35					40					45				
Ser	Ser	Ser	Thr	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Leu	Leu
	50				55					60					
Ser	Ile	Phe	Asp	Met	Leu	Phe	Pro	Ser	Val	Thr	Cys	Pro	Lys	Met	Leu
65				70					75					80	
Leu	Tyr	Leu	Ser	Gly	Lys	Ser	Pro	Ala	Ile	Ser	Tyr	Arg	Gly	Cys	Ile
			85					90					95		
Ala	Gln	Leu	Phe	Tyr	His	Phe	Leu	Gly	Ser	Thr	Glu	Gly	Cys	Leu	
		100					105					110			

Tyr Ser Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu  
 115 120 125  
 Arg Tyr Met Leu Ile Met Lys Pro Gly Val Cys Leu Gly Leu Val Ile  
 130 135 140  
 Val Ser Trp Leu Ile Gly Cys Leu Gln Ser Gly Ile Leu Thr Phe Phe  
 145 150 155 160  
 Thr Phe Gln Leu Thr Tyr Cys Gly Pro Asn His Val His His Phe Phe  
 165 170 175  
 Cys Asp Ile Pro Ala Val Leu Pro Leu Ala Cys Thr Asp Asn Lys Leu  
 180 185 190  
 Ala Arg Lys Val Gly Ser Ile Asn Val Gly Phe Leu Ala Leu Met Leu  
 195 200 205  
 Leu Phe Ser Val Cys Val Ser Tyr Val His Ile Gly Val Ala Ile Leu  
 210 215 220  
 Arg Ile Arg Ser Ala Glu Gly Arg Gln Lys Ala Phe Phe Thr Cys Ser  
 225 230 235 240  
 Ala His Leu Thr Ala Ile Leu Cys Ala Tyr Gly Pro Val Ile Ile Ile  
 245 250 255  
 Tyr Leu Gln Arg Thr Pro Asn Pro Leu Leu Gly Ala Val Val Gln Ile  
 260 265 270  
 Leu Asn Asn Ile Val Ser Pro Met Leu Asn Ser Leu Ile Tyr Ser Leu  
 275 280 285  
 Arg Asn Lys Glu Val Lys Arg Ala Leu Arg Arg Val Phe His Ser Leu  
 290 295 300  
 Ala  
 305

<210> 1573  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1573  
 Met Ser Ile Arg Asn His Ser Thr Val Thr Glu Phe Leu Leu Leu Gly  
 1 5 10 15  
 Leu Thr Glu Glu Pro Ala Leu Gln Leu Pro Leu Phe Cys Leu Phe Leu  
 20 25 30  
 Gly Ile Tyr Ile Val Thr Met Val Gly Asn Leu Gly Met Ile Ala Val  
 35 40 45  
 Ile Lys Leu Asn Ser Gln Leu His Thr Pro Met Tyr Tyr Phe Leu Ser  
 50 55 60  
 Ser Leu Ser Phe Leu Asp Phe Cys Tyr Ser Ser Val Val Thr Pro Lys  
 65 70 75 80  
 Met Leu Val Gly Phe Leu Ser Arg Asp Lys Ala Ile Ser Tyr Ser Asp  
 85 90 95  
 Cys Met Ala Gln Leu Phe Phe Phe Cys Ile Phe Val Ile Ser Glu Cys  
 100 105 110  
 Tyr Met Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser  
 115 120 125  
 Pro Leu Leu Tyr Ala Val Ile Met Ser Pro Arg Val Cys Ser Leu Leu  
 130 135 140  
 Val Ala Ala Val Phe Ser Val Gly Phe Thr Asp Ala Val Ile His Gly  
 145 150 155 160  
 Gly Cys Ile Leu Arg Leu Ser Phe Cys Lys Ser Asn Ile Ile Lys His  
 165 170 175  
 Tyr Phe Cys Asp Ile Val Pro Leu Ile Gln Leu Ser Cys Ser Ser Thr

			180					185				190					
Tyr	Ile	Asp	Glu	Leu	Leu	Ile	Phe	Val	Ile	Gly	Gly	Phe	Asn	Met	Ile		
		195					200					205					
Ala	Thr	Ser	Leu	Thr	Ile	Val	Ile	Ser	Tyr	Gly	Phe	Ile	Leu	Ser	Ser		
	210					215					220						
Ile	Leu	Arg	Ile	His	Ser	Lys	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr		
225					230					235					240		
Cys	Ser	Ser	His	Leu	Thr	Ala	Val	Leu	Ile	Phe	Tyr	Gly	Ser	Leu	Met		
			245						250					255			
Ser	Met	Tyr	Leu	Lys	Pro	Ala	Ser	Asn	Gly	Ser	Val	Ile	His	Glu	Lys		
		260						265					270				
Val	Thr	Ser	Val	Phe	Tyr	Thr	Thr	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu		
	275						280					285					
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	His	Ala	Leu	Val	Lys	Leu		
	290					295					300						
Val	Arg	Arg	Lys	Ile	Ser	Ser											
305					310												

<210> 1574  
 <211> 321  
 <212> PRT  
 <213> Mus musculus

<400> 1574

Met	Val	Glu	Arg	Met	Gln	Tyr	Leu	Asn	Gln	Ser	Val	Val	Ser	Gln	Phe		
1				5					10					15			
Phe	Leu	Glu	Gly	Leu	Met	Tyr	Thr	Ala	Glu	His	Pro	Gly	Leu	Phe	Phe		
		20						25					30				
Leu	Leu	Phe	Leu	Leu	Ile	Tyr	Ser	Ile	Thr	Val	Ser	Gly	Asn	Leu	Leu		
	35					40						45					
Ile	Leu	Leu	Thr	Val	Gly	Ser	Asp	Pro	His	Leu	Arg	Ser	Pro	Met	Tyr		
	50				55						60						
His	Phe	Leu	Gly	His	Leu	Ser	Phe	Leu	Asp	Ala	Cys	Leu	Ser	Thr	Val		
65				70					75					80			
Thr	Val	Pro	Lys	Val	Met	Ala	Gly	Leu	Leu	Thr	Leu	Asp	Gly	Lys	Val		
			85					90					95				
Ile	Ser	Phe	Gln	Gly	Cys	Ala	Leu	Gln	Leu	Tyr	Cys	Phe	His	Phe	Leu		
		100				105							110				
Ala	Ser	Thr	Glu	Cys	Phe	Leu	Tyr	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr		
	115					120						125					
Leu	Ala	Ile	Cys	Gln	Pro	Leu	His	Tyr	Pro	Val	Val	Met	Asn	Lys	Arg		
	130					135					140						
Val	Cys	Ala	Gly	Leu	Ala	Gly	Ser	Thr	Trp	Ala	Ile	Gly	Ala	Met	His		
145				150					155					160			
Ser	Ala	Ile	His	Thr	Ser	Leu	Thr	Phe	Arg	Leu	Leu	Tyr	Cys	Gly	Pro		
			165					170						175			
Gln	His	Ile	Ala	Tyr	Phe	Phe	Cys	Asp	Ile	Pro	Pro	Val	Leu	Lys	Leu		
		180					185						190				
Ala	Cys	Ala	Asp	Thr	Thr	Ile	Asn	Glu	Leu	Val	Met	Leu	Ala	Asn	Ile		
	195					200						205					
Gly	Val	Val	Ala	Ala	Gly	Cys	Leu	Ile	Leu	Ile	Ile	Ile	Ser	Tyr	Ala		
	210				215						220						
Phe	Ile	Val	Ala	Ala	Val	Leu	Arg	Ile	Arg	Thr	Ala	Glu	Gly	Arg	Gln		
225				230					235					240			
Arg	Ala	Phe	Ser	Thr	Cys	Thr	Ala	His	Leu	Thr	Val	Val	Leu	Leu	Tyr		
			245						250					255			





305

<210> 1576  
<211> 315  
<212> PRT  
<213> Mus musculus

<400> 1576  
Met Gln Gly Ser Ser Tyr Glu Asn His Ser Ser Val Ser Glu Phe Ile  
1 5 10 15  
Leu Leu Gly Phe Ser Ser Asn Phe Gln Leu Asn Ile Ile Leu Phe Asn  
20 25 30  
Val Phe Phe Phe Leu Tyr Leu Ser Thr Leu Val Gly Asn Gly Leu Ile  
35 40 45  
Val Thr Leu Ile His Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe  
50 55 60  
Phe Leu Ser Val Leu Ser Met Leu Asp Met Ser Tyr Val Thr Thr Thr  
65 70 75 80  
Val Pro Gln Met Leu Val His Leu Leu Cys Gln Lys Lys Thr Ile Ser  
85 90 95  
Tyr Ser Gly Cys Val Ala Gln Met Tyr Ile Phe Leu Val Leu Gly Ile  
100 105 110  
Thr Glu Gly Trp Leu Phe Ser Val Met Ala Tyr Asp Arg Tyr Val Ala  
115 120 125  
Ile Cys His Pro Leu Arg Tyr Lys Val Ile Met Arg Pro Trp Leu Cys  
130 135 140  
Gly Ala Met Val Val Phe Cys Gly Leu Trp Gly Val Ser Cys Ser Leu  
145 150 155 160  
Ile Tyr Thr Val Phe Thr Met Arg Leu Pro Tyr Cys Gly Pro Asn Glu  
165 170 175  
Ile Asn His Phe Phe Cys Glu Val Pro Ala Val Leu Lys Leu Ala Cys  
180 185 190  
Ala Asp Thr Ser Leu Asn Asp Arg Ile Asp Phe Ile Leu Gly Phe Ile  
195 200 205  
Leu Leu Leu Val Pro Leu Ser Phe Ile Leu Ala Ser Tyr Val Cys Ile  
210 215 220  
Phe Ala Thr Ile Leu Arg Ile Arg Ser Ala Gln Gly Arg Leu Lys Ala  
225 230 235 240  
Phe Ser Thr Cys Ala Ser His Ile Thr Val Val Thr Met Phe Cys Gly  
245 250 255  
Pro Ala Met Phe Met Tyr Met Asn Pro Gly Ala Asn Ala Ser Pro Glu  
260 265 270  
Arg Asp Lys Lys Leu Ala Leu Phe Tyr Asn Val Ile Ser Ala Phe Leu  
275 280 285  
Asn Pro Ile Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Arg Ala Phe  
290 295 300  
Leu Lys Val Thr Gly Trp Gly Gly Ala Thr Glu  
305 310 315

<210> 1577  
<211> 309  
<212> PRT  
<213> Mus musculus

<400> 1577

Met Ala Asn Ser Thr Leu Val Pro Glu Phe Leu Leu Glu Val Phe Ala  
 1 5 10 15  
 Glu Thr Trp Glu Leu Arg Ile Leu Leu Thr Val Leu Phe Leu Leu Met  
 20 25 30  
 Tyr Leu Gly Ser Leu Leu Gly Asn Leu Ile Ile Ile Ile Ala Thr Thr  
 35 40 45  
 Val Asp His Ile Leu Asn Thr Pro Met Tyr Phe Phe Leu Arg Asn Leu  
 50 55 60  
 Ser Ile Leu Asp Met Gly Tyr Val Ser Val Thr Val Pro Asn Ala Cys  
 65 70 75 80  
 Ile Asn Ser Leu Thr Asp His Arg Ser Ile Ser Leu Ala Gly Cys Ala  
 85 90 95  
 Gly Gln Ile Phe Leu Val Phe Phe Ser Ala Cys Val Glu Ile Gln Phe  
 100 105 110  
 Leu Thr Ile Met Ala Gln Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu  
 115 120 125  
 Leu Tyr Ala Met Ile Met Asn His Gln Phe Cys Val Gln Met Thr Leu  
 130 135 140  
 Ala Ser Leu Leu Thr Ser Leu Ile Leu Ala Ser Val His Thr Ser Lys  
 145 150 155 160  
 Thr Phe Gln Leu Ser Phe Cys His Ser Asn Val Val Ser Gln Phe Phe  
 165 170 175  
 Cys Asp Ile Pro Ser Leu Leu Arg Leu Ser Cys Thr Asp Thr Phe Ile  
 180 185 190  
 Asn Lys Leu Leu Leu Leu Thr Ala Ile Val Phe Ser Gly Ser Cys  
 195 200 205  
 Phe Thr Phe Ile Ala Ile Ser Tyr Val Arg Ile Leu Ser Thr Val Leu  
 210 215 220  
 Lys Val Pro Val Lys Gly Glu Arg Gly Lys Ala Phe Ser Thr Cys Val  
 225 230 235 240  
 Pro His Ile Ile Val Val Ser Val Phe Leu Ser Ser Gly Ala Tyr Val  
 245 250 255  
 Tyr Leu Lys Pro Ser Ala Ile Ser Glu Ile Val Glu Asp Met Thr Leu  
 260 265 270  
 Ser Val Phe Tyr Thr Ile Val Pro Pro Phe Leu Asn Pro Ile Ile Tyr  
 275 280 285  
 Ser Leu Arg Asn Lys Gln Ile Lys Lys Ala Val Lys Lys Val Ile Phe  
 290 295 300  
 Arg Phe Phe Ile Val  
 305

<210> 1578  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1578  
 Met Glu Pro Ser Asn Arg Thr Ala Val Ser Glu Phe Val Leu Lys Gly  
 1 5 10 15  
 Phe Ser Gly Tyr Pro Ala Leu Glu Arg Leu Leu Phe Pro Leu Cys Ser  
 20 25 30  
 Val Met Tyr Leu Val Thr Leu Leu Gly Asn Thr Ala Ile Val Ala Val  
 35 40 45  
 Ser Met Leu Asp Ala Arg Leu His Thr Pro Met Tyr Phe Phe Leu Gly  
 50 55 60  
 Asn Leu Ser Ile Leu Asp Ile Cys Tyr Thr Ser Thr Phe Val Pro Leu

65					70					75				80
Met	Leu	Val	His	Leu	Leu	Ser	Ser	Arg	Lys	Thr	Ile	Ser	Phe	Thr
				85					90					95
Cys	Ala	Val	Gln	Met	Cys	Leu	Ser	Leu	Ser	Thr	Gly	Ser	Thr	Glu
			100					105					110	
Leu	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys
		115					120					125		Gln
Pro	Leu	Arg	Tyr	Pro	Val	Leu	Met	Ser	His	Arg	Leu	Cys	Leu	Met
	130					135					140			
Ala	Gly	Ala	Ser	Trp	Val	Leu	Cys	Leu	Phe	Lys	Ser	Val	Ala	Glu
145					150					155				160
Val	Ile	Ala	Met	Arg	Leu	Pro	Phe	Cys	Gly	His	His	Val	Ile	Arg
			165						170					175
Phe	Thr	Cys	Glu	Ile	Leu	Ala	Val	Leu	Lys	Leu	Thr	Cys	Gly	Asp
		180						185					190	Thr
Ser	Val	Ser	Asp	Ala	Phe	Leu	Leu	Val	Gly	Ala	Ile	Leu	Leu	Leu
	195					200						205		Pro
Ile	Pro	Leu	Thr	Leu	Ile	Cys	Leu	Ser	Tyr	Met	Leu	Ile	Leu	Ala
	210				215						220			Thr
Ile	Leu	Arg	Val	Pro	Ser	Ala	Thr	Gly	Arg	Ser	Lys	Ala	Phe	Ser
225				230					235					240
Cys	Ser	Ala	His	Leu	Ala	Val	Val	Leu	Leu	Phe	Tyr	Ser	Thr	Ile
			245						250					255
Phe	Met	Tyr	Met	Lys	Pro	Lys	Ser	Lys	Glu	Ala	Arg	Ile	Ser	Asp
		260				265							270	Gln
Val	Phe	Thr	Val	Leu	Tyr	Ala	Val	Val	Thr	Pro	Met	Leu	Asn	Pro
	275					280						285		Ile
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Glu	Ala	Ala	Arg	Lys
	290				295						300			Ala
Trp	Gly	Ser	Arg	Trp	Ala	Cys	Arg							
305					310									

<210> 1579  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 1579														
Met	Glu	Arg	Ser	Asn	Lys	Thr	Thr	Pro	Val	Ser	Ser	Phe	Ile	Leu
1				5					10					15
Gly	Leu	Ser	Ala	His	Pro	Lys	Leu	Glu	Lys	Thr	Phe	Phe	Val	Leu
			20					25					30	Ile
Leu	Leu	Met	Tyr	Leu	Val	Ile	Leu	Leu	Gly	Asn	Val	Val	Leu	Ile
		35				40						45		Leu
Val	Ser	Ile	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe
	50					55					60			Leu
Gly	Asn	Leu	Ser	Phe	Leu	Asp	Ile	Cys	Tyr	Thr	Thr	Ser	Ser	Val
65					70				75					80
Leu	Ile	Leu	Asp	Ser	Phe	Leu	Thr	Pro	Arg	Lys	Thr	Ile	Ser	Phe
			85					90					95	Ser
Gly	Cys	Ala	Val	Gln	Met	Phe	Leu	Ser	Phe	Ala	Met	Gly	Ala	Thr
		100						105				110		Glu
Cys	Val	Leu	Gly	Met	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys
	115					120					125			
Asn	Pro	Leu	Arg	Tyr	Pro	Val	Val	Met	Ser	Lys	Ala	Ala	Tyr	Val
	130					135					140			Pro

Met	Ala	Ala	Gly	Ser	Trp	Val	Ser	Gly	Ser	Ile	Thr	Ala	Thr	Val	Gln
145					150					155					160
Ile	Ser	Leu	Ala	Met	Thr	Leu	Pro	Phe	Cys	Gly	Asp	Asn	Val	Ile	Asn
				165					170						175
His	Phe	Thr	Cys	Glu	Ile	Leu	Ala	Val	Leu	Lys	Leu	Ala	Cys	Ala	Asp
			180					185					190		
Ile	Ser	Ile	Asn	Val	Ile	Ser	Met	Ala	Val	Ala	Asn	Ala	Met	Phe	Leu
		195					200					205			
Gly	Val	Pro	Val	Leu	Phe	Ile	Phe	Val	Ser	Tyr	Ile	Phe	Ile	Leu	Ser
	210					215					220				
Thr	Ile	Leu	Arg	Ile	Pro	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Ala	Phe	Ser
225					230					235					240
Thr	Cys	Ser	Ala	His	Leu	Thr	Val	Val	Leu	Val	Phe	Tyr	Gly	Thr	Ile
				245					250						255
Leu	Phe	Met	Tyr	Gly	Lys	Pro	Lys	Ser	Lys	Asp	Pro	Leu	Gly	Ala	Asp
		260					265						270		
Lys	Gln	Asp	Leu	Ala	Asp	Lys	Leu	Ile	Ser	Leu	Phe	Tyr	Gly	Val	Val
		275					280					285			
Thr	Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val
	290					295					300				
Lys	Ala	Ala	Val	Thr	Asn	Leu	Val	Gly	Gln	Lys	His	Phe	Lys	Trp	
305					310					315					

<210> 1580

<211> 318

<212> PRT

<213> Mus musculus

<400> 1580

Met	Glu	Gly	Ala	Asn	Gln	Ser	Thr	Val	Ala	Glu	Phe	Val	Leu	Leu	Gly
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Leu	Ser	Asp	His	Pro	Lys	Leu	Glu	Lys	Thr	Phe	Phe	Val	Leu	Ile	Leu
			20					25					30		
Leu	Met	Tyr	Leu	Val	Ile	Leu	Leu	Gly	Asn	Gly	Val	Leu	Ile	Leu	Val
	35					40						45			
Ser	Ile	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gly
	50					55					60				
Asn	Leu	Ser	Phe	Leu	Asp	Ile	Cys	Tyr	Thr	Thr	Ser	Ser	Ile	Pro	Leu
65					70					75					80
Val	Leu	Asp	Gly	Phe	Leu	Thr	Pro	Arg	Lys	Thr	Ile	Ser	Phe	Ser	Gly
				85					90					95	
Cys	Ala	Val	Gln	Met	Phe	Leu	Ser	Phe	Ala	Met	Gly	Ala	Thr	Glu	Cys
			100					105					110		
Val	Leu	Leu	Gly	Met	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
	115					120						125			
Pro	Leu	Arg	Tyr	Pro	Val	Val	Met	Asn	Lys	Ser	Ala	Tyr	Val	Pro	Met
	130					135					140				
Ala	Val	Ser	Ser	Trp	Val	Ala	Gly	Gly	Ala	Asn	Ser	Leu	Val	Gln	Ile
145					150					155					160
Ser	Leu	Ala	Val	Gln	Leu	Pro	Phe	Cys	Gly	Asp	Asn	Val	Ile	Asn	His
				165					170					175	
Phe	Thr	Cys	Glu	Ile	Leu	Ala	Val	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Ile
			180					185					190		
Ser	Ile	Asn	Val	Ile	Ser	Met	Gly	Val	Ala	Asn	Val	Ile	Phe	Leu	Gly
		195					200					205			
Val	Pro	Val	Leu	Phe	Ile	Phe	Val	Ser	Tyr	Ile	Phe	Ile	Leu	Ser	Thr

210		215		220											
Ile	Leu	Arg	Ile	Pro	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Ala	Phe	Ser	Thr
225				230						235					240
Cys	Ser	Ala	His	Leu	Thr	Val	Val	Leu	Val	Phe	Tyr	Gly	Thr	Ile	Leu
				245						250					255
Phe	Met	Tyr	Gly	Lys	Pro	Lys	Ser	Lys	Asp	Pro	Leu	Gly	Ala	Asp	Lys
			260					265					270		
Gln	Asp	Val	Ser	Asp	Lys	Leu	Ile	Ser	Leu	Phe	Tyr	Gly	Val	Leu	Thr
		275					280					285			
Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys
	290				295						300				
Ala	Ala	Val	Arg	Asn	Leu	Val	Gly	Gln	Lys	Cys	Leu	Ile	Gln		
305				310						315					

<210> 1581  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1581

Met	Asp	Glu	Glu	Asn	Cys	Ser	Thr	Val	Ala	Gln	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Asp	Val	Pro	Glu	Leu	Arg	Gly	Val	Leu	Ser	Leu	Leu	Phe	Leu
			20					25					30		
Leu	Ile	Tyr	Gly	Val	Thr	Ala	Leu	Ala	Asn	Leu	Gly	Met	Thr	Ala	Leu
		35					40					45			
Ile	Gln	Val	Ser	Ser	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
His	Leu	Ser	Phe	Val	Asp	Phe	Cys	Tyr	Ser	Ser	Val	Ile	Val	Pro	Lys
65					70					75				80	
Met	Leu	Ala	Asn	Ile	Phe	Asn	Lys	Asp	Lys	Ala	Ile	Ser	Phe	Leu	Ala
			85						90					95	
Cys	Met	Val	Gln	Phe	Tyr	Leu	Phe	Cys	Thr	Cys	Val	Val	Thr	Glu	Val
			100					105					110		
Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	Asn
		115					120					125			
Pro	Leu	Leu	Tyr	Thr	Ala	Thr	Met	Ser	Ser	Asp	Leu	Arg	Met	Ile	Leu
	130					135					140				
Val	Ser	Gly	Cys	Tyr	Leu	Cys	Ala	Ser	Met	Cys	Ser	Leu	Ile	His	Leu
145					150					155				160	
Cys	Leu	Ala	Leu	Glu	Ile	Pro	Ser	Phe	Lys	Ser	Asn	Val	Ile	Asn	His
			165						170					175	
Phe	Phe	Cys	Asp	Leu	Pro	Pro	Leu	Leu	Ser	Leu	Ala	Cys	Ser	Asp	Val
			180					185					190		
Thr	Val	Asn	Lys	Val	Leu	Leu	Phe	Val	Val	Ala	Thr	Phe	Asn	Glu	Ser
		195					200					205			
Phe	Ser	Ile	Val	Val	Ile	Phe	Thr	Ser	Tyr	Leu	Phe	Ile	Leu	Ile	Thr
	210					215					220				
Ile	Leu	Arg	Met	Arg	Ser	Val	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr
225					230					235				240	
Cys	Ala	Ser	His	Leu	Thr	Val	Ile	Ile	Val	Phe	His	Gly	Thr	Ile	Leu
			245						250					255	
Ser	Ile	Tyr	Cys	Ser	Ser	Thr	Ser	Asp	Asn	Ser	Gly	Asp	Ala	Asp	Lys
		260						265				270			
Val	Ala	Thr	Val	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			

Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Arg	Lys	Val
290						295					300				
Val	Asn	Ser	Lys	Ile	Tyr	Ser	Gln								
305					310										

<210> 1582  
 <211> 321  
 <212> PRT  
 <213> Mus musculus

Met	Leu	Leu	Thr	Tyr	Gly	Asn	Asn	Ser	Gly	Ala	Met	Phe	Ile	Leu	Leu
1				5					10					15	
Ser	Phe	Ser	Asp	Tyr	Pro	Glu	Ile	Glu	Met	Pro	Leu	Phe	Leu	Val	Phe
			20					25					30		
Leu	Ala	Ile	Tyr	Ser	Ile	Thr	Val	Val	Gly	Asn	Ile	Gly	Met	Ile	Val
			35				40					45			
Ile	Ile	Arg	Ile	Asn	Pro	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Ser	His	Leu	Ser	Phe	Val	Asp	Phe	Cys	Tyr	Ser	Ser	Val	Ile	Ala	Pro
65					70					75					80
Lys	Met	Leu	Val	Asn	Leu	Phe	Ile	Lys	Asn	Arg	Ala	Ile	Ser	Phe	Leu
				85					90					95	
Glu	Cys	Ile	Val	Gln	Tyr	Phe	Phe	Phe	Ala	Ile	Phe	Val	Val	Thr	Glu
			100					105					110		
Thr	Ile	Leu	Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys
			115				120						125		
Arg	Pro	Leu	Leu	Tyr	Thr	Val	Ala	Met	Ser	Gln	Lys	Leu	Cys	Ile	Ser
	130					135					140				
Leu	Val	Val	Gly	Ser	Tyr	Ala	Trp	Gly	Leu	Ile	Cys	Ser	Leu	Thr	Met
145					150					155					160
Thr	Cys	Ser	Ile	Ile	Gln	Leu	Ser	Phe	Val	Gly	Ile	Asn	Thr	Ile	Asp
				165					170					175	
His	Phe	Phe	Cys	Glu	Phe	Ser	Ser	Leu	Leu	Val	Leu	Ser	Cys	Ser	Asp
			180					185					190		
Thr	His	Val	Asn	Gln	Ile	Leu	Leu	Phe	Ser	Leu	Ser	Thr	Val	Asn	Ala
		195				200						205			
Leu	Ser	Thr	Leu	Leu	Ile	Ile	Leu	Leu	Ser	Tyr	Met	Phe	Ile	Leu	Val
	210				215						220				
Thr	Ile	Leu	Lys	Met	Gln	Ser	Ser	Arg	Gly	Arg	Gln	Lys	Ala	Phe	Tyr
225					230					235					240
Thr	Cys	Ala	Ser	His	Leu	Thr	Thr	Ile	Thr	Ile	Phe	Tyr	Gly	Thr	Ile
				245					250					255	
Leu	Phe	Leu	Tyr	Ser	Val	Pro	Asn	Ser	Lys	Asn	Ser	Gln	Leu	Thr	Phe
			260					265					270		
Lys	Val	Ala	Ser	Leu	Phe	Tyr	Thr	Leu	Val	Ile	Pro	Met	Leu	Asn	Pro
		275					280					285			
Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asp	Thr	Val	Arg	Gln
	290					295					300				
Ile	Met	Lys	Ile	Lys	Phe	Ile	Ala	Leu	Pro	His	Leu	Ser	Ser	Lys	Val
305					310					315					320
Arg															

<210> 1583

<211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1583

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Met Asp Glu Glu Asn Ile Thr Glu Val Thr Glu Phe Ile Leu Leu Gly
 1      5      10      15
Phe Thr Glu Asp Ala Val Leu Gln Gln Val Leu Phe Phe Ile Phe Leu
      20      25      30
Thr Ile Tyr Ile Ile Ser Leu Leu Gly Asn Ile Thr Leu Ile Ser Leu
      35      40      45
Ile Cys Ala Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Ile Gly
      50      55      60
Asn Leu Ser Phe Leu Asp Leu Trp Tyr Ser Ser Val Tyr Ala Pro Lys
65      70      75      80
Ile Leu Ile Thr Cys Ile Thr Glu Asp Lys Ser Ile Ser Phe Ala Gly
      85      90      95
Cys Leu Ala Gln Phe Phe Phe Ser Ala Gly Leu Ala Tyr Ser Glu Cys
      100     105     110
Tyr Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Ser Asn
      115     120     125
Pro Leu Leu Tyr Phe Gln Ala Met Ser Pro Arg Leu Arg Ala Ser Leu
      130     135     140
Val Ala Ala Ser Tyr Leu Gly Gly Phe Ala Asn Ser Thr Ile Ile Thr
145     150     155     160
Ser Glu Thr Phe Thr Leu Ser Phe Cys Arg Asp Asn Ile Ile Asp Asp
      165     170     175
Phe Phe Cys Asp Leu Pro Pro Leu Val Lys Leu Ala Cys Asp Val Lys
      180     185     190
Glu Ser Tyr Gln Ala Val Leu Tyr Phe Ile Leu Ala Ser Asn Val Ile
      195     200     205
Thr Pro Thr Val Leu Ile Leu Ala Ser Tyr Leu Phe Ile Ile Val Ala
      210     215     220
Ile Leu Lys Ile Arg Ser Thr Gln Gly Arg Leu Lys Ala Phe Ser Thr
225     230     235     240
Cys Gly Ser His Leu Thr Ala Val Thr Leu Tyr Tyr Gly Ser Ile Leu
      245     250     255
Phe Ile Tyr Ser Arg Pro Ser Thr Ser Tyr Ala Leu Glu Arg Asp Lys
      260     265     270
Val Val Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Met
      275     280     285
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Leu Arg Lys Met
      290     295     300
Leu Asp Ile Val
305

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<210> 1584  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1584

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Met Lys Glu His Asn Leu Thr Val Met Thr Glu Phe Ile Leu Met Gly
 1      5      10      15
Ile Ser Asp His Ser Glu Leu Gln Ala Pro Leu Phe Gly Leu Phe Leu
      20      25      30

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Ala	Ile	Tyr	Met	Thr	Ser	Met	Val	Gly	Asn	Leu	Gly	Ile	Ile	Val	Leu
	35						40					45			
Thr	Thr	Val	Asp	Ser	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg
	50					55					60				
His	Leu	Ala	Ile	Thr	Asp	Leu	Gly	Tyr	Ser	Thr	Ala	Val	Gly	Pro	Lys
65					70					75					80
Met	Leu	Glu	Asn	Phe	Val	Val	Asp	Gln	Asn	Thr	Ile	Ser	Phe	Asn	Leu
			85						90					95	
Cys	Ala	Thr	Gln	Leu	Ala	Phe	Phe	Leu	Val	Phe	Ile	Gly	Ser	Glu	Leu
			100					105						110	
Phe	Ile	Leu	Ser	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
	115						120					125			
Pro	Leu	Leu	Tyr	Thr	Val	Leu	Met	Ser	Gln	Lys	Leu	Cys	Trp	Val	Leu
	130					135					140				
Met	Ser	Met	Pro	Tyr	Leu	Tyr	Cys	Thr	Phe	Val	Ser	Leu	Leu	Ile	Thr
145					150					155					160
Val	Lys	Ile	Phe	Thr	Ser	Ser	Phe	Cys	Gly	Tyr	Asn	Val	Ile	Asn	His
				165					170					175	
Phe	Tyr	Cys	Asp	Cys	Ile	Pro	Leu	Leu	Ser	Leu	Leu	Cys	Ser	His	Ala
			180					185					190		
Glu	Glu	Ile	Ala	Phe	Ile	Val	Met	Ile	Phe	Ala	Ala	Phe	Asp	Leu	Ile
	195						200					205			
Val	Ser	Leu	Leu	Ile	Val	Leu	Val	Ser	Tyr	Met	Phe	Ile	Leu	Ile	Ala
	210					215					220				
Val	Leu	Arg	Met	Asn	Ser	Ala	Glu	Gly	Arg	Tyr	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Thr	Val	Val	Thr	Val	Phe	Tyr	Gly	Thr	Leu	Ile
				245					250					255	
Phe	Met	Tyr	Val	Gln	Pro	Gln	Ser	Ser	His	Ser	Asp	Asp	Asn	Asp	Lys
			260					265					270		
Val	Ser	Ser	Ile	Phe	Tyr	Thr	Leu	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Phe	Ala	Leu	His	Arg	Thr
	290				295						300				
Trp	Arg	Asn	Ile	Cys	Lys	Ile	Phe	Pro							
305					310										

<210> 1585  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1585															
Met	Glu	Lys	Asn	Asn	Leu	Thr	Ala	Val	Thr	Gln	Phe	Ile	Leu	Met	Gly
1				5					10					15	
Ile	Thr	Glu	Arg	Pro	Glu	Leu	Gln	Ala	Pro	Leu	Phe	Gly	Leu	Phe	Leu
			20					25					30		
Val	Ile	Tyr	Leu	Ser	Ser	Met	Phe	Gly	Asn	Leu	Gly	Met	Ile	Ile	Leu
	35					40						45			
Thr	Thr	Val	Asp	Ser	Lys	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Arg
	50					55					60				
His	Leu	Ala	Ile	Thr	Asp	Leu	Gly	Tyr	Ser	Thr	Ala	Val	Gly	Pro	Lys
65					70					75					80
Met	Leu	Val	Asn	Phe	Val	Val	Asp	Leu	Asn	Ile	Ile	Ser	Tyr	Asn	Leu
			85						90					95	
Cys	Ala	Thr	Gln	Leu	Ala	Phe	Phe	Leu	Val	Phe	Ile	Ile	Ser	Glu	Leu



Ile	Leu	Ala	Leu	Ser	Cys	Ser	Asp	Thr	Tyr	Asn	Ala	Glu	Ala	Thr	Ile
			180					185					190		
Phe	Val	Leu	Ala	Gly	Ser	Thr	Leu	Leu	Leu	Ser	Leu	Ile	Thr	Ile	Ser
		195					200					205			
Ala	Ser	Tyr	Val	Ser	Ile	Leu	Ser	Thr	Ile	Leu	Lys	Ile	Asn	Ser	Ser
	210					215					220				
Ser	Gly	Lys	His	Lys	Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Ile	Gly
225					230					235					240
Val	Thr	Val	Phe	Tyr	Gly	Thr	Thr	Ile	Phe	Thr	Tyr	Leu	Lys	Pro	Ser
			245						250					255	
Thr	Ser	Tyr	Ser	Leu	Gly	Lys	Asp	Gln	Val	Ala	Pro	Val	Phe	Tyr	Thr
			260					265						270	
Ile	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys
		275					280					285			
Glu	Val	Lys	Ser	Ala	Val	Val	Arg	Val	Met	Lys	Lys	Arg	Glu	Cys	Ile
	290					295					300				
Gln	Lys	Leu	Lys												
305															

<210> 1587  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1587

Met	Arg	Val	Trp	Asn	His	Thr	Gly	Val	Lys	Glu	Phe	Met	Leu	Leu	Gly
1				5					10					15	
Leu	Thr	Glu	Asn	Pro	Asn	Cys	Gln	Val	Pro	Leu	Phe	Leu	Leu	Phe	Ser
			20					25					30		
Ile	Val	Tyr	Leu	Ile	Ile	Leu	Val	Gly	Asn	Trp	Gly	Met	Ile	Ile	Leu
		35					40					45			
Ile	Trp	Leu	Asn	Ala	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Cys	Asp	Ile	Cys	Tyr	Ser	Thr	Val	Ile	Ala	Pro	Lys
65					70					75					80
Met	Leu	Ile	Asp	Phe	Leu	Ser	Glu	His	Lys	Ser	Ser	Thr	Phe	Phe	Gly
			85						90					95	
Cys	Val	Leu	Gln	Ser	Phe	Phe	Phe	Ala	Val	Tyr	Ile	Thr	Thr	Glu	Gly
			100					105					110		
Ile	Leu	Leu	Ser	Met	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Ala	Asn
		115					120					125			
Pro	Leu	Met	Tyr	Thr	Val	Ile	Met	Thr	His	Arg	Ile	Cys	Ser	Gln	Met
	130					135					140				
Val	Leu	Ala	Cys	Tyr	Leu	Gly	Gly	Leu	Ile	Asn	Ser	Leu	Thr	His	Thr
145					150					155					160
Ile	Gly	Leu	Leu	Arg	Leu	Asp	Phe	Cys	Gly	Pro	Asn	Ile	Val	Asn	His
				165					170					175	
Phe	Phe	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Ala
			180					185					190		
His	Ile	Asn	Glu	Met	Leu	Leu	Leu	Val	Phe	Ser	Gly	Val	Ile	Ala	Ile
		195					200					205			
Phe	Thr	Phe	Ile	Ile	Val	Met	Val	Ser	Tyr	Ile	His	Ile	Ile	Ile	Ala
	210					215					220				
Ile	Leu	Arg	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Thr	Ala	Val	Ile	Leu	Phe	Tyr	Gly	Ser	Val	Thr

				245					250				255				
Phe	Ser	Tyr	Ile	Gln	Pro	Ser	Ser	Gln	Tyr	Ser	Met	Glu	Gln	Glu	Lys		
			260					265					270				
Val	Ser	Ala	Val	Phe	Tyr	Thr	Leu	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu		
		275					280					285					
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Ala	Lys	Lys	Phe		
	290					295					300						
Ile	Gly	Arg	Glu	Arg	Arg	Thr	Ser										
305					310												

<210> 1588  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1588

Met	Ser	Ala	Cys	Asn	His	Thr	Asn	Glu	Pro	Glu	Phe	Thr	Leu	Val	Gly		
1				5				10						15			
Leu	Thr	Asp	Ser	Lys	Glu	Ile	Gln	Leu	Val	Leu	Ser	Val	Leu	Phe	Leu		
		20						25					30				
Leu	Ile	Tyr	Met	Leu	Thr	Val	Leu	Gly	Asn	Ile	Gly	Met	Ile	Leu	Ile		
	35						40					45					
Ile	His	Leu	Asp	Val	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Thr		
	50					55					60						
His	Leu	Ser	Phe	Leu	Asp	Leu	Ser	Tyr	Ser	Thr	Val	Ile	Thr	Pro	Lys		
65					70					75					80		
Thr	Leu	Gln	Asn	Thr	Leu	Thr	Ser	Ile	Lys	Asn	Ile	Ser	Phe	Met	Gly		
				85					90						95		
Cys	Phe	Thr	Gln	Leu	Tyr	Phe	Phe	Val	Leu	Leu	Ala	Ala	Ser	Glu	Cys		
			100					105					110				
Phe	Ile	Leu	Ser	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn		
	115					120						125					
Pro	Leu	His	Tyr	Pro	Val	Ile	Met	Ser	Pro	Arg	Arg	Ser	Tyr	Thr	Leu		
	130					135						140					
Ile	Thr	Val	Ser	Tyr	Met	Ile	Gly	Val	Leu	Asp	Ser	Ser	Val	Thr	Val		
145					150					155					160		
Phe	Cys	Leu	Ser	Thr	Leu	Asp	Phe	Cys	Asn	Ser	Lys	Val	Ile	His	His		
				165					170					175			
Phe	Phe	Cys	Asp	Thr	Phe	Pro	Ile	Leu	Ala	Leu	Ser	Cys	Ser	Asp	Thr		
		180						185					190				
Tyr	Asn	Ala	Glu	Ala	Thr	Ile	Phe	Val	Leu	Ala	Gly	Ser	Thr	Leu	Leu		
	195						200					205					
Leu	Ser	Leu	Ile	Thr	Ile	Ser	Ser	Ser	Tyr	Val	Ser	Ile	Leu	Ser	Thr		
	210					215					220						
Ile	Leu	Lys	Ile	Asn	Ser	Ser	Ser	Gly	Lys	His	Lys	Ala	Phe	Ser	Thr		
225					230					235					240		
Cys	Ala	Ser	His	Leu	Ile	Gly	Val	Thr	Val	Phe	Tyr	Gly	Thr	Met	Ile		
			245						250					255			
Phe	Thr	Tyr	Leu	Lys	Pro	Ser	Thr	Ser	Tyr	Ser	Leu	Gly	Lys	Asp	Gln		
		260						265					270				
Val	Ala	Ser	Val	Phe	Tyr	Thr	Ile	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu		
		275					280					285					
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Ser	Ala	Val	Val	Arg	Val		
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305					310					315							

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 <212> PRT  
 <213> Mus musculus

<400> 1589  
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 Ile Phe Leu Ile Phe Tyr Val Leu Thr Leu Val Gly Asn Ile Leu Ile  
 35 40 45  
 Val Val Thr Ile Ile His Asp His Arg Leu His Thr Pro Met Tyr Phe  
 50 55 60  
 Phe Leu Ser Asn Leu Ser Phe Ile Asp Val Cys His Ser Thr Val Thr  
 65 70 75 80  
 Val Pro Lys Met Leu Ser Asp Thr Phe Ser Glu Glu Lys Leu Ile Ser  
 85 90 95  
 Phe Asp Asp Cys Val Val Gln Ile Phe Phe Leu His Leu Phe Ala Cys  
 100 105 110  
 Thr Glu Ile Phe Leu Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala  
 115 120 125  
 Ile Cys Lys Pro Leu Arg Tyr Met Thr Ile Met Asn Trp Lys Val Cys  
 130 135 140  
 Met Val Leu Gly Gly Ala Met Trp Thr Ala Gly Thr Ile His Ser Ile  
 145 150 155 160  
 Ser Phe Thr Ser Leu Thr Ile Lys Leu Pro Tyr Cys Gly Pro Asn Glu  
 165 170 175  
 Leu Asp Ser Phe Phe Cys Asp Val Pro Gln Val Ile Glu Leu Ala Cys  
 180 185 190  
 Thr Asp Thr Arg Ile Thr Glu Ile Leu Val Val Ser Asn Ser Gly Met  
 195 200 205  
 Ile Ser Met Val Cys Phe Val Ile Ile Val Val Ser Tyr Ala Val Ile  
 210 215 220  
 Leu Val Ser Leu Arg Gln Gln Ile Ser Asp Gly Lys Arg Lys Ala Leu  
 225 230 235 240  
 Ser Thr Cys Ala Ala His Leu Thr Val Val Thr Leu Phe Leu Gly His  
 245 250 255  
 Cys Ile Phe Ile Tyr Ser Arg Pro Ala Ile Ser Leu Pro Glu Asp Lys  
 260 265 270  
 Ile Val Ser Ala Phe Phe Thr Ala Ile Thr Pro Leu Leu Asn Pro Ile  
 275 280 285  
 Ile Tyr Thr Phe Arg Asn Glu Asp Met Lys Ser Ala Leu Lys Lys Leu  
 290 295 300  
 Ile Arg Arg Lys Glu Gly Lys Glu Lys  
 305 310

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Trp	Tyr	Thr	Met	Ile	Gly	Ile	Pro	Gly	Leu	Glu	Tyr	Ala	His	Ile	Trp		
			20					25					30				
Ile	Ser	Ile	Pro	Ile	Cys	Ser	Met	Tyr	Ile	Val	Ala	Ile	Ala	Gly	Asn		
		35					40					45					
Ala	Leu	Leu	Leu	Phe	Leu	Ile	Ile	Thr	Glu	Arg	Ser	Leu	His	Glu	Pro		
	50					55					60						
Met	Tyr	Leu	Phe	Leu	Ser	Met	Leu	Ala	Leu	Ala	Asp	Ile	Phe	Leu	Ser		
65					70					75					80		
Thr	Val	Thr	Thr	Pro	Lys	Met	Leu	Ala	Ile	Phe	Trp	Phe	Arg	Ala	Gly		
				85					90					95			
Gly	Ile	Ser	Phe	Ala	Ser	Cys	Val	Ser	Gln	Met	Phe	Phe	Leu	His	Phe		
			100					105					110				
Ile	Phe	Val	Ala	Glu	Ser	Ala	Ile	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg		
		115					120					125					
Tyr	Val	Ala	Ile	Cys	Tyr	Pro	Leu	Arg	Tyr	Thr	Thr	Ile	Leu	Thr	Thr		
	130					135					140						
Ser	Val	Ile	Ile	Lys	Met	Gly	Ile	Ala	Ala	Val	Ile	Arg	Ser	Phe	Phe		
145					150					155					160		
Ile	Cys	Phe	Pro	Leu	Ile	Phe	Leu	Val	Tyr	Arg	Leu	Thr	Tyr	Cys	Gly		
			165					170						175			
Lys	Ser	Thr	Ile	Arg	His	Ser	Tyr	Cys	Glu	His	Met	Gly	Ile	Ala	Arg		
		180					185						190				
Leu	Ala	Cys	Asp	Ser	Ile	Lys	Val	Asn	Ile	Tyr	Tyr	Gly	Val	Ile	Val		
	195					200						205					
Ala	Leu	Phe	Ser	Thr	Cys	Leu	Asp	Ala	Val	Leu	Ile	Ile	Val	Ser	Tyr		
	210					215					220						
Ala	Leu	Ile	Leu	Cys	Ala	Val	Phe	Arg	Ile	Pro	Ser	Arg	Asp	Ala	Arg		
225					230					235					240		
Leu	Lys	Ala	Leu	Gly	Thr	Cys	Gly	Ser	His	Val	Cys	Val	Ile	Leu	Leu		
			245					250						255			
Phe	Tyr	Thr	Pro	Ala	Phe	Phe	Ser	Phe	Phe	Ala	His	Arg	Phe	Gly	Gly		
			260					265						270			
His	Ser	Ile	Pro	Leu	His	Val	His	Ile	Leu	Leu	Ala	Asn	Leu	Tyr	Val		
		275					280					285					
Val	Val	Pro	Pro	Ser	Val	Asn	Pro	Ile	Ile	Tyr	Gly	Val	Lys	Thr	Lys		
	290					295					300						
Gln	Ile	Gln	Glu	Arg	Val	Ile	Gln	Val	Phe	Ser	Leu	Gly	Lys				
305					310					315							

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 <213> Mus musculus

<400> 1591

Met	Leu	Gly	Trp	Ser	Asn	Gly	Thr	Tyr	Asn	Glu	Ser	Tyr	Thr	Ser	Phe		
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Leu	Leu	Met	Gly	Phe	Pro	Gly	Met	Gln	Glu	Ala	Arg	Ala	Leu	Leu	Val		
		20					25						30				
Leu	Pro	Phe	Leu	Ser	Leu	Tyr	Leu	Val	Ile	Leu	Phe	Thr	Asn	Ala	Leu		
		35				40						45					
Val	Ile	His	Thr	Val	Ala	Ser	Gln	Arg	Ser	Leu	His	Gln	Pro	Met	Tyr		
	50					55					60						
Leu	Leu	Ile	Ala	Leu	Leu	Leu	Ala	Val	Asn	Ile	Cys	Ala	Ala	Thr	Thr		
65					70					75					80		

Val	Leu	Pro	Pro	Met	Leu	Phe	Ser	Phe	Ser	Thr	Arg	Phe	Asn	Arg	Ile	85	90	95
Ser	Leu	Pro	Arg	Cys	Leu	Gly	Gln	Met	Phe	Cys	Ile	Tyr	Phe	Leu	Val	100	105	110
Ser	Met	Asp	Cys	Asn	Ile	Leu	Leu	Val	Met	Ala	Leu	Asp	Arg	Tyr	Val	115	120	125
Ala	Ile	Cys	Tyr	Pro	Leu	Arg	Tyr	Pro	Glu	Ile	Val	Thr	Gly	Gln	Leu	130	135	140
Leu	Ala	Gly	Leu	Val	Val	Leu	Ala	Val	Thr	Arg	Ser	Thr	Ser	Ile	Val	145	150	155
Ala	Pro	Val	Val	Val	Leu	Ala	Ser	Arg	Val	Arg	Phe	Cys	Arg	Ser	Asp	165	170	175
Val	Ile	Arg	His	Phe	Ala	Cys	Glu	His	Met	Ala	Leu	Met	Lys	Leu	Ser	180	185	190
Cys	Gly	Asp	Ile	Ser	Leu	Asn	Lys	Thr	Ala	Gly	Leu	Ile	Ile	Arg	Thr	195	200	205
Phe	Asn	Arg	Val	Leu	Asp	Met	Leu	Leu	Leu	Gly	Thr	Ser	Tyr	Ser	Arg	210	215	220
Ile	Ile	His	Ala	Ala	Phe	Arg	Ile	Ser	Ser	Gly	Gly	Ala	Arg	Ser	Lys	225	230	235
Ala	Leu	Asn	Thr	Cys	Gly	Ser	His	Leu	Leu	Val	Ile	Phe	Thr	Val	Tyr	245	250	255
Ser	Ser	Thr	Met	Ser	Ser	Ser	Ile	Val	Tyr	Arg	Val	Ala	Arg	Thr	Ala	260	265	270
Ser	Gln	Asp	Val	His	Asn	Leu	Leu	Ser	Ala	Phe	Tyr	Leu	Leu	Leu	Pro	275	280	285
Cys	Leu	Val	Asn	Pro	Ile	Ile	Tyr	Gly	Ala	Arg	Thr	Lys	Glu	Ile	Arg	290	295	300
Gln	His	Leu	Val	Arg	Ser	Phe	Leu	Ser	Ala	Gly	Pro					305	310	315

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 <212> PRT  
 <213> Mus musculus

<400> 1592

Met	Glu	Met	Thr	Asn	Asp	Ser	Met	Leu	Thr	Glu	Phe	Leu	Leu	Val	Gly	1	5	10	15
Leu	Ser	Asp	His	Pro	Lys	Leu	Gln	Thr	Val	Leu	Phe	Val	Leu	Val	Leu	20	25	30	
Cys	Met	Tyr	Leu	Met	Ile	Leu	Leu	Gly	Asn	Gly	Val	Leu	Ile	Ala	Val	35	40	45	
Val	Ile	His	Asp	Ile	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Cys	50	55	60	
Asn	Leu	Ser	Phe	Leu	Asp	Ile	Cys	Tyr	Thr	Ser	Ser	Ser	Val	Pro	Leu	65	70	75	80
Ile	Leu	Ser	Ser	Phe	Leu	Thr	Val	Arg	Lys	Arg	Val	Ser	Phe	Ser	Glu	85	90	95	
Cys	Met	Ile	Gln	Met	Phe	Phe	Ser	Phe	Ala	Met	Gly	Ala	Thr	Glu	Cys	100	105	110	
Val	Leu	Leu	Gly	Thr	Met	Ala	Leu	Asp	Arg	Phe	Met	Ala	Ile	Cys	Tyr	115	120	125	
Pro	Leu	Arg	Tyr	Pro	Val	Ile	Met	Ser	Lys	Asp	Thr	Tyr	Val	Pro	Met	130	135	140	
Ala	Ala	Gly	Cys	Trp	Val	Ala	Gly	Leu	Val	Asp	Ser	Val	Val	Gln	Thr				

145		150		155		160									
Ser	Leu	Ala	Val	Gln	Leu	Pro	Phe	Cys	Thr	Asn	Asn	Val	Ile	His	His
		165							170					175	
Phe	Val	Cys	Glu	Ile	Leu	Gly	Ile	Leu	Glu	Leu	Ala	Cys	Ala	Asp	Ile
		180						185					190		
Ser	Ile	Asn	Val	Ile	Ser	Leu	Thr	Gly	Ser	Asn	Leu	Leu	Phe	Leu	Ala
		195					200					205			
Val	Pro	Leu	Leu	Val	Ile	Ala	Val	Ser	Tyr	Met	Phe	Ile	Ile	Ala	Thr
	210					215					220				
Ile	Leu	Arg	Ile	Pro	Ser	Ala	Glu	Gly	Lys	Arg	Lys	Ala	Phe	Ser	Thr
225				230						235					240
Cys	Ser	Ala	His	Leu	Thr	Val	Val	Ile	Ile	Phe	Tyr	Gly	Thr	Ile	Phe
			245						250					255	
Ser	Met	Tyr	Ala	Lys	Pro	Lys	Ser	Lys	Asp	Thr	Ala	Gly	Ala	Gly	His
		260				265						270			
Gln	Ser	Val	Met	Glu	Ala	Leu	Ile	Ser	Leu	Phe	Tyr	Gly	Val	Met	Thr
		275				280						285			
Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys
	290				295					300					
Ala	Ala	Val	Gln	Asn	Met	Leu	Gly	Arg	Lys	Thr	Leu	Ser	Lys	Met	
305				310						315					

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 <212> PRT  
 <213> Mus musculus

<400> 1593

Met	Lys	Phe	Thr	Glu	Ile	Arg	Ala	Glu	Asp	Asn	Ala	Ser	Thr	Val	Thr
1				5					10					15	
Glu	Phe	Leu	Leu	Leu	Gly	Phe	Ser	Asp	Leu	Pro	Asn	Leu	Gln	Gly	Ile
		20						25					30		
Leu	Phe	Gly	Met	Phe	Ser	Ile	Ile	Tyr	Leu	Ile	Ile	Leu	Val	Gly	Asn
		35				40						45			
Ser	Phe	Ile	Ile	Val	Ile	Thr	Arg	Ile	Asp	Pro	Ala	Leu	Gln	Lys	Pro
	50				55					60					
Met	Tyr	Phe	Phe	Leu	Ala	Asn	Phe	Ser	Ser	Leu	Glu	Ile	Cys	Tyr	Val
65				70					75					80	
Ser	Val	Thr	Leu	Pro	Arg	Ile	Leu	Phe	Ser	Ile	Ala	Thr	Gln	Glu	Arg
			85					90					95		
Lys	Ile	Ser	Val	Leu	Ser	Cys	Ala	Thr	Gln	Leu	Cys	Phe	Phe	Leu	Met
		100					105						110		
Leu	Ala	Ala	Thr	Glu	Cys	Phe	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg
	115					120					125				
Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu	His	Tyr	Pro	Leu	Val	Met	Asn	Pro
	130				135					140					
Thr	Lys	Cys	Thr	Gln	Leu	Ala	Ala	Ala	Ser	Trp	Leu	Gly	Gly	Ile	Pro
145				150					155					160	
Val	Gln	Ile	Gly	Gln	Thr	Cys	Gln	Ile	Phe	Ser	Leu	His	Phe	Cys	Asn
			165					170					175		
Ser	Thr	Gln	Ile	Asn	His	Phe	Leu	Cys	Asp	Ile	Pro	Pro	Ile	Leu	Lys
		180				185							190		
Leu	Ala	Cys	Gly	Asp	Thr	Ser	Ile	Asn	Glu	Leu	Ser	Val	Tyr	Leu	Val
	195					200					205				
Ala	Ile	Leu	Phe	Ala	Ala	Val	Pro	Phe	Met	Leu	Ile	Leu	Ala	Ser	Tyr
210					215						220				



Gly	Lys	Ile	Ile	Ala	Thr	Ile	Leu	Lys	Leu	Pro	Thr	Ala	Thr	Gly	Arg
225					230					235					240
Ala	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Leu	Val	Val	Phe	Leu
				245					250						255
Phe	Phe	Gly	Ser	Ala	Thr	Ile	Thr	Tyr	Leu	Arg	Pro	Lys	Ser	Thr	His
			260					265					270		
Ser	Pro	Gly	Thr	Asp	Lys	Leu	Phe	Ser	Leu	Phe	Tyr	Ser	Ile	Val	Thr
		275						280				285			
Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ile
	290					295					300				
Ala	Ala	Leu	Arg	Lys	Leu	Leu	Arg	Ile	Lys						
305						310									

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 <213> Mus musculus

<400> 1594

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		20					25					30			
Leu	Phe	Gly	Leu	Phe	Ser	Ile	Ile	Tyr	Leu	Ile	Ile	Leu	Ile	Gly	Asn
		35				40						45			
Ser	Phe	Ile	Ile	Val	Ile	Thr	Arg	Ile	Asp	Pro	Ala	Leu	Gln	Lys	Pro
	50					55					60				
Met	Tyr	Phe	Phe	Leu	Ala	Asn	Phe	Ser	Ser	Leu	Glu	Ile	Cys	Tyr	Val
65					70					75					80
Ser	Val	Thr	Leu	Pro	Arg	Ile	Leu	Phe	Asn	Ile	Ala	Thr	Gln	Asp	Arg
			85						90					95	
Ser	Ile	Ser	Val	Val	Ser	Cys	Ala	Thr	Gln	Met	Cys	Phe	Phe	Leu	Met
			100					105						110	
Leu	Gly	Ala	Thr	Glu	Cys	Phe	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg
	115						120					125			
Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu	His	Tyr	Pro	Leu	Val	Met	Asn	Pro
	130					135					140				
Thr	Lys	Cys	Thr	Gln	Leu	Ala	Ala	Ala	Ser	Trp	Leu	Gly	Gly	Ile	Pro
145					150					155					160
Val	Gln	Ile	Gly	Gln	Thr	Cys	Gln	Ile	Phe	Ser	Leu	His	Phe	Cys	Asn
			165						170					175	
Ser	Asn	Gln	Ile	Asp	His	Phe	Phe	Cys	Asp	Leu	Pro	Pro	Ile	Leu	Lys
		180						185					190		
Leu	Ala	Cys	Gly	Asp	Thr	Ser	Ile	His	Glu	Leu	Ser	Val	Tyr	Leu	Val
	195						200					205			
Ala	Met	Leu	Phe	Val	Ala	Phe	Pro	Phe	Leu	Leu	Ile	Leu	Ala	Ser	Tyr
	210					215					220				
Thr	Lys	Ile	Ile	Ala	Thr	Ile	Leu	Lys	Leu	Pro	Thr	Ala	Thr	Gly	Arg
225					230					235					240
Ala	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Leu	Val	Val	Phe	Leu
				245					250						255
Phe	Phe	Gly	Ser	Ala	Thr	Ile	Thr	Tyr	Leu	Arg	Pro	Lys	Ser	Thr	His
			260					265					270		
Ser	Pro	Gly	Thr	Asp	Lys	Leu	Leu	Ser	Leu	Phe	Tyr	Thr	Ile	Val	Thr
		275					280					285			
Pro	Met	Phe	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ile

290	295	300
Ala Ala Leu Arg Lys	Leu Leu His Ile Lys	
305	310	

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 <212> PRT  
 <213> Mus musculus

<400> 1595

Met	Glu	Lys	Lys	Asn	Cys	Ser	Ser	Val	Asp	Glu	Phe	Ile	Phe	Leu	Gly
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Ile	Thr	Lys	Asn	Pro	Asp	Met	Arg	Val	Thr	Phe	Phe	Thr	Thr	Leu	Leu
			20					25					30		
Leu	Val	Tyr	Leu	Ile	Asn	Leu	Leu	Ala	Asn	Leu	Gly	Met	Ile	Ile	Leu
		35					40					45			
Ile	Arg	Val	Asn	Thr	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
His	Leu	Ser	Phe	Cys	Asp	Leu	Cys	Tyr	Ser	Thr	Ala	Ile	Gly	Pro	Lys
65					70					75					80
Met	Leu	Val	Asp	Leu	Leu	Val	Glu	Glu	Lys	Ser	Ile	Pro	Ile	Val	Gly
			85						90					95	
Cys	Ala	Leu	Gln	Phe	Phe	Thr	Phe	Cys	Ile	Phe	Ala	Asp	Ser	Glu	Cys
			100					105					110		
Leu	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Gln	Ala	Ile	Ser	Asn
		115					120					125			
Pro	Leu	Leu	Tyr	Thr	Val	Asn	Met	Ser	Ser	Arg	Leu	Cys	Ser	Leu	Leu
	130					135					140				
Met	Ala	Gly	Val	Tyr	Leu	Val	Gly	Thr	Ala	Asp	Ala	Leu	Ile	His	Thr
145					150					155					160
Thr	Leu	Thr	Phe	Arg	Leu	Cys	Phe	Cys	Gly	Ser	Asn	Glu	Ile	Asn	His
			165						170					175	
Phe	Phe	Cys	Asp	Val	Pro	Pro	Leu	Leu	Leu	Ile	Ser	Cys	Ser	Asp	Thr
			180				185						190		
Glu	Val	Asn	Glu	Leu	Ala	Ile	Phe	Thr	Ile	Phe	Gly	Phe	Ile	Glu	Leu
		195					200					205			
Ser	Thr	Ile	Ser	Gly	Val	Leu	Val	Ser	Tyr	Cys	Tyr	Ile	Ile	Ser	Ser
	210					215					220				
Val	Leu	Lys	Ile	Gly	Ser	Ala	Glu	Gly	Arg	Phe	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Thr	Ala	Val	Ala	Val	Phe	Gln	Gly	Thr	Met	Leu
			245						250					255	
Phe	Met	Tyr	Phe	Arg	Pro	Ser	Ser	Ala	Tyr	Ser	Leu	Asp	Gln	Asp	Lys
			260					265					270		
Met	Thr	Ser	Leu	Phe	Tyr	Thr	Leu	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Val	Val	Lys	Leu
	290					295					300				
Lys	Asn	Lys	Trp												
305															

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<400> 1596

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Met Glu Asn Ser Thr Ser Val Asp Glu Phe Leu Leu Leu Gly Leu Thr
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Ser Val Gln Lys Leu Gln Pro Ile Ile Phe Val Met Phe Leu Thr Ile
          20          25          30
Tyr Leu Leu Asn Leu Val Gly Asn Gly Val Ile Leu Met Ile Val Thr
          35          40          45
Leu Glu Arg Arg Leu His Ser Pro Met Tyr Phe Phe Leu Gly Asn Leu
          50          55          60
Ser Cys Leu Asp Ile Cys Tyr Ser Ser Val Thr Leu Pro Lys Val Leu
65          70          75          80
Ile Asn Leu Leu Ser Arg Arg Arg Ala Ile Ser Phe Leu Gly Cys Ile
          85          90          95
Thr Gln Leu Tyr Phe Phe His Phe Leu Gly Ser Thr Glu Ala Ile Leu
          100          105          110
Leu Ala Val Met Ala Phe Asp Arg Phe Val Ala Ile Cys Ser Pro Leu
          115          120          125
Arg Tyr Thr Ala Ile Met Asn Pro Gln Leu Cys Ile Leu Leu Ala Ala
130          135          140
Thr Ala Trp Phe Thr Ser Phe Phe Tyr Ala Leu Leu His Ser Val Met
145          150          155          160
Thr Ala His Leu Asn Phe Cys His Ser His Lys Leu Ser His Phe Phe
          165          170          175
Cys Asp Val Lys Pro Leu Leu Glu Val Ala Cys Gly Asn Thr Val Leu
          180          185          190
Asn Gln Trp Leu Leu Ser Val Val Thr Gly Ser Ile Ser Met Gly Ala
          195          200          205
Phe Leu Leu Ile Leu Leu Ser Tyr Phe Tyr Ile Ile Ala Phe Leu Leu
          210          215          220
Phe Lys Asn Arg Ser Cys Arg Met Leu Lys Lys Ala Leu Ser Thr Cys
225          230          235          240
Thr Ser His Phe Met Val Val Cys Leu Phe Tyr Gly Pro Val Gly Phe
          245          250          255
Thr Tyr Ile Arg Pro Ala Thr Ala Ser Ala Ser Ser Met Ser Glu Asp
          260          265          270
Arg Val Val Ala Ile Ile Tyr Ser Ala Val Thr Pro Val Leu Asn Pro
          275          280          285
Leu Ile Tyr Thr Leu Arg Asn Lys Glu Val Met Leu Ala Leu Lys Lys
          290          295          300
Asn Phe Gly Lys Lys Leu Phe Lys Gly Asn
305          310
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<210> 1597

<211> 308

<212> PRT

<213> Mus musculus

<400> 1597

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Met Ser Asn Gln Thr Ser Val Thr Glu Phe Leu Leu Leu Gly Val Thr
 1          5          10          15
Asp Ile Gln Glu Leu Asn Pro Ile Leu Phe Val Ile Phe Phe Thr Ile
          20          25          30
Tyr Phe Ile Asn Ile Thr Gly Asn Gly Ala Ile Leu Met Ile Val Ile
          35          40          45
Leu Asp Pro Arg Leu His Ser Pro Met Tyr Phe Phe Leu Gly Asn Leu
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50	55	60
Ala Cys Leu Asp Ile Ser Tyr Ser Thr Val Thr Val Pro Lys Leu Leu		
65	70	75
Gln Asn Leu Leu Ser Thr Ser Lys Ala Ile Ser Phe Leu Gly Cys Ile		80
	85	90
Thr Gln Leu His Phe Phe His Phe Leu Gly Ser Thr Glu Thr Met Leu		95
	100	105
Leu Pro Val Met Ala Phe Asp Arg Phe Val Ala Ile Cys Arg Pro Leu		110
	115	120
His Tyr Ser Val Ile Met Asn His Gln Leu Cys Ile His Met Thr Val		125
	130	135
Thr Ile Trp Thr Leu Gly Phe Phe His Ala Leu Leu His Ser Val Met		140
	145	150
Thr Ser Arg Leu Ser Phe Cys Gly Pro Asn His Val His His Phe Phe		155
	165	170
Cys Asp Ile Lys Pro Leu Leu Asp Leu Ala Cys Gly Asn Thr Glu Leu		175
	180	185
Asn Leu Trp Leu Leu Asn Thr Val Thr Gly Thr Ile Ala Leu Thr Ser		190
	195	200
Phe Phe Leu Ile Phe Leu Ser Tyr Phe Tyr Ile Ile Thr Asn Leu Leu		205
	210	215
Leu Lys Thr Arg Ser Cys Ser Met Leu His Lys Ala Leu Ser Thr Cys		220
	225	230
Ala Ser His Phe Met Val Val Val Leu Phe Tyr Ala Pro Val Leu Phe		235
	245	250
Thr Tyr Ile Arg Pro Ala Ser Gly Ser Ser Leu Asp Gln Asp Thr Ile		255
	260	265
Ile Ala Ile Met Tyr Ser Val Val Thr Pro Ala Leu Asn Pro Leu Ile		270
	275	280
Tyr Thr Leu Arg Asn Lys Glu Val Arg Ser Ala Leu Asn Arg Lys Val		285
	290	295
Arg Arg Trp Leu		300
305		

<210> 1598  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1598
Met Leu Asn Gln Thr Ser Val Thr Glu Phe Ile Leu Leu Gly Val Arg
1 5 10 15
Asp Ile Gln Glu Pro Gln Pro Phe Leu Phe Ala Ile Phe Phe Thr Ile
20 25 30
Tyr Phe Val Asn Ile Thr Gly Asn Gly Ala Ile Leu Met Ile Val Ile
35 40 45
Leu Asp Pro Arg Leu His Ser Pro Met Tyr Phe Phe Leu Gly Asn Leu
50 55 60
Ala Cys Leu Asp Ile Ser Tyr Ser Thr Val Thr Val Pro Lys Met Leu
65 70 75 80
Glu Asn Leu Leu Ser Thr Asn Lys Ala Ile Ser Leu Leu Gly Cys Ile
85 90 95
Thr Gln Leu His Phe Phe His Phe Leu Gly Thr Thr Glu Ser Leu Leu
100 105 110
Leu Ala Val Met Ala Phe Asp Arg Phe Val Ala Ile Cys Arg Pro Leu
115 120 125

His	Tyr	Ser	Val	Ile	Met	Asn	Trp	Gln	Val	Cys	Ile	Leu	Met	Ala	Val
130						135					140				
Thr	Ile	Trp	Thr	Ile	Ala	Phe	Leu	His	Ala	Leu	Leu	His	Ser	Val	Met
145					150					155					160
Thr	Ser	Arg	Leu	Ser	Phe	Cys	Gly	Leu	Asn	His	Ile	His	His	Phe	Phe
				165					170					175	
Cys	Asp	Val	Lys	Pro	Leu	Leu	Glu	Leu	Ala	Cys	Gly	Asn	Thr	Glu	Leu
		180					185						190		
Asn	Leu	Trp	Leu	Leu	Asn	Thr	Val	Thr	Gly	Thr	Ile	Ala	Ser	Val	Pro
	195					200						205			
Phe	Phe	Leu	Thr	Phe	Leu	Ser	Tyr	Phe	Tyr	Ile	Ile	Thr	Tyr	Leu	Phe
210					215					220					
Leu	Lys	Thr	Arg	Ser	Cys	Ser	Met	Leu	His	Lys	Ala	Leu	Ser	Thr	Cys
225					230					235					240
Ala	Ser	His	Phe	Met	Val	Val	Val	Leu	Phe	Tyr	Ala	Pro	Val	Leu	Phe
				245					250					255	
Thr	Tyr	Ile	Arg	Pro	Thr	Ser	Gly	Ser	Ser	Leu	Asp	Gln	Asp	Arg	Ile
		260					265						270		
Ile	Ala	Ile	Met	Tyr	Ser	Val	Val	Thr	Pro	Ala	Leu	Asn	Pro	Leu	Ile
	275					280						285			
Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Arg	Ser	Ala	Leu	Asn	Arg	Lys	Val
290					295						300				
Arg	Arg	Cys	Leu	Leu	Leu	Glu	Glu	Ile							
305					310										

<210> 1599  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1599

Met	Ala	Leu	Ile	Asn	Lys	Ser	His	Pro	Glu	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Phe	Ala	Asp	Arg	Pro	Trp	Leu	Glu	Leu	Pro	Leu	Phe	Ile	Ile	Leu	Leu
		20					25						30		
Val	Thr	Tyr	Pro	Thr	Ala	Met	Ile	Gly	Asn	Ile	Ala	Ile	Ile	Leu	Val
	35					40						45			
Ser	Ile	Leu	Asp	Pro	Cys	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Thr
	50				55					60					
Asn	Leu	Ser	Phe	Leu	Asp	Met	Cys	Tyr	Thr	Thr	Ser	Ile	Val	Pro	Gln
65				70					75					80	
Met	Leu	Thr	Asn	Leu	Gly	Ser	Ser	Thr	Lys	Thr	Ile	Ser	Tyr	Met	Arg
			85					90					95		
Cys	Val	Val	Gln	Leu	Tyr	Phe	Phe	His	Ile	Met	Gly	Gly	Thr	Glu	Cys
		100					105						110		
Val	Leu	Leu	Ala	Leu	Met	Ser	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
	115					120						125			
Pro	Leu	His	Tyr	Thr	Leu	Ile	Met	Asn	Gln	Arg	Asn	Cys	Ile	Leu	Leu
	130				135						140				
Val	Ser	Thr	Val	Trp	Leu	Thr	Gly	Ile	Ser	Tyr	Ala	Val	Ser	Glu	Ala
145				150					155						160
Thr	Val	Thr	Leu	Gln	Leu	Pro	Leu	Cys	Gly	His	Asn	Lys	Leu	Asp	His
			165				170						175		
Leu	Val	Cys	Glu	Ile	Pro	Ile	Leu	Ile	Lys	Thr	Ala	Cys	Gly	Glu	Lys
	180					185						190			
Glu	Thr	Asn	Glu	Leu	Ala	Leu	Ser	Val	Val	Cys	Ile	Phe	Leu	Leu	Ala



Phe	Met	Ala	Leu	Phe	Tyr	Gly	Val	Val	Thr	Pro	Thr	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Gly	Lys	Leu
	290					295					300				
Phe	Arg	Asn	Ile	Phe	Ile	Ser	Lys								
305					310										

<210> 1601

<211> 314

<212> PRT

<213> Mus musculus

<400> 1601

Met	Asp	Asp	Met	Thr	Ser	Gly	Asn	Tyr	Cys	Thr	Val	Thr	Glu	Phe	Phe
1				5					10					15	
Leu	Ala	Gly	Leu	Ser	Glu	Lys	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Phe
			20					25					30		
Leu	Phe	Ile	Gly	Ile	Tyr	Met	Ile	Thr	Val	Ala	Gly	Asn	Leu	Gly	Met
		35					40					45			
Ile	Ile	Leu	Ile	Gly	Leu	Ser	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Tyr
	50					55					60				
Phe	Leu	Ser	Ser	Leu	Ser	Phe	Ile	Asp	Phe	Cys	Gln	Ser	Thr	Val	Val
65					70					75					80
Thr	Pro	Lys	Met	Leu	Val	Asn	Phe	Val	Thr	Glu	Lys	Asn	Ile	Ile	Ser
				85					90					95	
Tyr	Pro	Gly	Cys	Met	Thr	Gln	Leu	Tyr	Phe	Phe	Leu	Ile	Phe	Ala	Ile
			100					105					110		
Ala	Glu	Cys	Tyr	Ile	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala
		115					120					125			
Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Asn	Val	Thr	Met	Ser	Tyr	Gln	Ile	Tyr
	130					135					140				
Ile	Ser	Leu	Ile	Ser	Gly	Val	Tyr	Ile	Ile	Gly	Val	Ile	Cys	Ala	Ser
145					150					155					160
Ala	His	Thr	Gly	Phe	Met	Val	Arg	Ile	Arg	Phe	Cys	Lys	Leu	Asp	Val
				165					170					175	
Ile	Asn	His	Tyr	Phe	Cys	Asp	Leu	Leu	Pro	Leu	Leu	Lys	Leu	Ala	Cys
		180						185					190		
Ser	Asn	Thr	Tyr	Ile	Asn	Glu	Met	Leu	Ile	Leu	Phe	Phe	Gly	Thr	Leu
	195						200						205		
Asn	Ile	Phe	Val	Pro	Ile	Leu	Thr	Ile	Ile	Thr	Ser	Tyr	Ile	Phe	Ile
	210					215						220			
Ile	Ala	Ser	Ile	Leu	Arg	Ile	Arg	Ser	Thr	Glu	Gly	Arg	Ser	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Ser	Ser	His	Ile	Leu	Ala	Val	Ala	Val	Phe	Phe	Gly
				245					250					255	
Ser	Leu	Ala	Phe	Met	Tyr	Leu	Gln	Pro	Ser	Ser	Val	Ser	Ser	Met	Asp
		260						265					270		
Gln	Gly	Lys	Val	Ser	Ser	Val	Phe	Tyr	Thr	Ile	Val	Val	Pro	Met	Leu
		275					280						285		
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Ala	Val	Ala	Leu
	290					295					300				
Lys	Lys	Ile	Ile	Glu	Arg	Lys	Thr	Phe	Met						
305					310										

<210> 1602

<211> 305  
 <212> PRT  
 <213> Mus musculus

<400> 1602

Met	Ala	Ala	Gly	Asn	Arg	Cys	Thr	Val	Thr	Glu	Phe	Phe	Leu	Val	Gly
1				5					10					15	
Leu	Ser	Glu	Lys	Ser	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Leu	Leu	Phe	Thr
			20					25					30		
Gly	Ile	Tyr	Leu	Ile	Thr	Val	Ala	Gly	Asn	Leu	Gly	Met	Ile	Thr	Leu
		35					40					45			
Ile	Gly	Leu	Ser	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Ser
	50					55					60				
Ser	Leu	Ser	Phe	Ile	Asp	Phe	Cys	Gln	Ser	Thr	Val	Val	Ile	Pro	Lys
65					70					75					80
Met	Leu	Met	Ser	Phe	Leu	Thr	Glu	Lys	Asn	Ile	Ile	Ser	Tyr	Ser	Gly
				85					90					95	
Cys	Met	Ala	Gln	Leu	Tyr	Phe	Phe	Leu	Ile	Phe	Gly	Ile	Ala	Glu	Cys
			100					105					110		
Tyr	Thr	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
		115					120					125			
Pro	Leu	Leu	Tyr	Asn	Val	Thr	Met	Ser	Tyr	Gln	Ile	Tyr	Ser	Ser	Leu
	130					135					140				
Ile	Ser	Gly	Ile	Tyr	Ile	Phe	Ala	Val	Phe	Cys	Ser	Ser	Leu	Asn	Thr
145					150					155					160
Gly	Phe	Met	Leu	Arg	Thr	Gln	Phe	Cys	Asn	Leu	Asp	Val	Ile	Asn	His
				165					170					175	
Tyr	Phe	Cys	Asp	Leu	Leu	Pro	Leu	Leu	Asn	Leu	Ala	Ser	Ser	Asn	Thr
			180					185					190		
Phe	Ile	Ile	Glu	Ile	Leu	Ile	Leu	Val	Ile	Ala	Thr	Leu	Asn	Val	Phe
		195					200					205			
Ile	Pro	Val	Leu	Thr	Ile	Ile	Thr	Ser	Tyr	Ile	Phe	Ile	Ile	Ala	Thr
	210					215					220				
Ile	Leu	Cys	Ile	His	Ser	Arg	Glu	Gly	Lys	Phe	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Ile	Ser	Ala	Val	Ala	Ile	Phe	Tyr	Gly	Ser	Gly	Ala
				245					250					255	
Phe	Thr	Tyr	Leu	Gln	Pro	Ser	Ser	Leu	Asn	Ser	Met	Gly	Gln	Ala	Lys
			260					265					270		
Val	Ser	Ser	Val	Phe	Tyr	Thr	Thr	Val	Val	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Gly	Cys	Gln	Tyr	Phe	Ile	Glu	Glu	Asn
	290					295					300				

Thr  
 305

<210> 1603  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1603

Met	Arg	Asn	Cys	Thr	Leu	Val	Thr	Glu	Phe	Ile	Leu	Val	Gly	Ile	Pro
1				5				10						15	
Tyr	Thr	Ala	Gly	Leu	Glu	Arg	Met	Leu	Phe	Val	Leu	Phe	Leu	Ser	Phe
			20					25					30		



Tyr	Leu	Leu	Thr	Leu	Pro	Gly	Asn	Leu	Leu	Ile	Leu	Met	Ala	Ile	Leu
	35						40					45			
Thr	Ser	Ala	Ser	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Asn	Leu
	50					55					60				
Ser	Val	Leu	Asp	Ile	Phe	Phe	Pro	Ser	Val	Ser	Ser	Pro	Lys	Met	Met
65					70					75					80
Leu	Ser	Leu	Thr	Gly	His	Ser	His	Thr	Ile	Ser	Tyr	Gln	Gly	Cys	Ala
				85					90					95	
Ser	Gln	Leu	Phe	Phe	Tyr	His	Phe	Leu	Gly	Cys	Ala	Glu	Cys	Phe	Leu
			100					105					110		
Tyr	Thr	Val	Met	Ala	Tyr	Asp	Arg	Phe	Ala	Ala	Ile	Cys	His	Pro	Leu
		115					120					125			
Arg	Tyr	Thr	Val	Ile	Met	Ser	Ser	Trp	Val	Cys	Gly	Ser	Met	Ala	Val
	130					135					140				
Ala	Thr	Trp	Met	Gly	Ser	Cys	Leu	His	Ala	Ser	Val	Leu	Thr	Phe	Leu
145					150					155					160
Ile	Phe	Lys	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Glu	Val	Asp	Asn	Phe	Phe
				165					170					175	
Cys	Asp	Ile	Pro	Val	Val	Leu	Pro	Leu	Ala	Cys	Ala	Asp	Thr	Ser	Leu
			180					185					190		
Ala	Gln	Ala	Val	Ser	Phe	Ile	Asn	Val	Gly	Leu	Val	Ala	Leu	Val	Cys
	195						200					205			
Phe	Leu	Leu	Ile	Leu	Ile	Ser	Tyr	Ser	Arg	Ile	Val	Ile	Ser	Ile	Leu
	210					215					220				
Lys	Ile	Arg	Ser	Ser	Glu	Gly	Arg	Arg	Arg	Ala	Phe	Ser	Thr	Cys	Ser
225					230					235					240
Ala	His	Leu	Thr	Ser	Ile	Leu	Leu	Phe	Tyr	Gly	Pro	Val	Val	Leu	Ile
				245					250					255	
Tyr	Leu	Arg	Pro	Ala	Ser	Ser	Pro	Trp	Leu	Asp	Ser	Val	Val	Gln	Val
			260					265					270		
Leu	Asn	Asn	Ile	Val	Thr	Pro	Ser	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu
	275						280					285			
Arg	Asn	Lys	Glu	Val	Lys	Val	Ala	Leu	Arg	Lys	Ala	Leu	Thr	Gln	Gly
	290					295					300				
Met	Arg	Val	Pro	Gly	Glu										
305					310										

<210> 1604  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1604

Met	Thr	Pro	Gly	Met	Val	Ser	Glu	Asn	Asn	Ser	Ser	Val	Lys	Glu	Phe
1				5					10					15	
Ile	Leu	Leu	Gly	Leu	Thr	Gln	Leu	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe
			20					25					30		
Phe	Leu	Phe	Leu	Gly	Ile	Tyr	Val	Phe	Ser	Met	Val	Gly	Asn	Leu	Gly
		35					40					45			
Leu	Ile	Val	Leu	Ile	Val	Leu	Asn	Pro	Pro	Leu	His	Thr	Pro	Met	Tyr
	50					55					60				
Tyr	Phe	Leu	Phe	Asn	Leu	Ser	Phe	Thr	Asp	Leu	Cys	Tyr	Ser	Ser	Val
65					70					75					80
Ile	Thr	Pro	Lys	Met	Leu	Val	Gly	Phe	Val	Lys	Gln	Asn	Ile	Ile	Ser
				85					90					95	
His	Ala	Glu	Cys	Met	Thr	Gln	Leu	Phe	Phe	Phe	Ala	Phe	Phe	Val	Ile



Tyr	Phe	Cys	Asp	Ile	Tyr	Pro	Leu	Leu	Glu	Leu	Ser	Cys	Ser	Asp	Thr
			180					185					190		
Phe	Ile	Asn	Glu	Val	Val	Leu	Leu	Cys	Phe	Ser	Val	Phe	Asn	Phe	Leu
		195					200					205			
Ile	Pro	Thr	Leu	Thr	Ile	Leu	Ser	Ser	Tyr	Ile	Phe	Ile	Ile	Ala	Ser
	210					215					220				
Ile	Leu	Arg	Ile	Lys	Ser	Thr	Glu	Gly	Arg	Tyr	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Ile	Ser	Ala	Val	Ala	Ile	Phe	Phe	Gly	Ser	Thr	Ala
			245						250					255	
Phe	Met	Tyr	Leu	Gln	Pro	Ser	Ser	Val	Asn	Ser	Met	Asp	Gln	Gly	Lys
			260					265					270		
Val	Ser	Ser	Val	Phe	Tyr	Ser	Ile	Val	Val	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Val	Ala	Leu	Asn	Lys	Phe
	290					295					300				
Phe	Glu	Arg	Lys	Phe	Phe	Leu									
305						310									

<210> 1606  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1606

Met	Gly	Lys	Glu	Asn	His	Thr	Glu	Leu	Ser	Gln	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Asp	Asp	Pro	Lys	Leu	Gln	Pro	Ile	Leu	Phe	Gly	Ile	Phe	Leu
		20						25					30		
Phe	Met	Tyr	Leu	Val	Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Ala
	35						40					45			
Val	Ser	Ser	Asp	Ser	His	Leu	His	Asn	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Val	Asp	Met	Cys	Phe	Thr	Ser	Thr	Thr	Val	Pro	Lys
65					70					75					80
Met	Leu	Val	Asn	Ile	Gln	Thr	Lys	Asn	Lys	Asn	Ile	Ser	Tyr	Met	Gln
			85						90					95	
Cys	Leu	Thr	Gln	Val	Tyr	Phe	Phe	Met	Val	Phe	Ala	Gly	Met	Asp	Asn
		100						105					110		
Phe	Leu	Leu	Thr	Val	Met	Ala	Phe	Asp	Arg	Phe	Val	Ala	Ile	Cys	His
	115						120					125			
Pro	Leu	Asn	Tyr	Thr	Val	Ile	Met	Asn	Pro	His	Phe	Cys	Cys	Phe	Leu
	130					135					140				
Val	Leu	Met	Cys	Trp	Ile	Ile	Ile	Leu	Ser	Val	Ser	Leu	Phe	His	Ser
145					150					155					160
Leu	Leu	Met	Lys	Gln	Leu	Thr	Phe	Ser	Met	Gly	Thr	Glu	Ile	Pro	His
			165						170					175	
Phe	Phe	Cys	Glu	Leu	Ala	Gln	Ile	Leu	Arg	Val	Ala	Ser	Ser	Asp	Ile
		180						185						190	
Leu	Ile	Asn	Asn	Ile	Ala	Leu	Tyr	Val	Ala	Thr	Ala	Leu	Leu	Cys	Val
	195						200					205			
Phe	Pro	Val	Thr	Gly	Ile	Leu	Phe	Ser	Tyr	Ser	Gln	Ile	Val	Ser	Ser
	210					215					220				
Leu	Leu	Asn	Met	Ser	Ser	Val	Val	Ser	Lys	Tyr	Arg	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Cys	Val	Val	Cys	Leu	Phe	Tyr	Gly	Thr	Ala	Leu

				245					250				255				
Gly	Val	Tyr	Leu	Ser	Ser	Ala	Gly	Thr	Asp	Val	Ser	Gln	Gly	Ser	Thr		
			260					265					270				
Ile	Ala	Ser	Val	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe		
		275					280					285					
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Val	Arg	Ile		
	290				295						300						
Leu	Lys	Val	Tyr	Ser	Cys	Pro											
305					310												

<210> 1607  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1607

Met	Asp	Lys	Asn	Asn	Gln	Thr	Phe	Val	Ser	Glu	Phe	Leu	Leu	Leu	Gly		
1			5					10					15				
Leu	Ala	Gly	Tyr	Pro	Lys	Thr	Glu	Ile	Ile	Tyr	Phe	Val	Ile	Val	Leu		
		20					25						30				
Val	Met	Tyr	Leu	Val	Ile	Leu	Thr	Gly	Asn	Gly	Val	Leu	Ile	Ile	Ala		
	35				40						45						
Ser	Ile	Phe	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gly		
	50				55					60							
Asn	Leu	Ser	Phe	Leu	Asp	Ile	Cys	Tyr	Thr	Thr	Ser	Ser	Val	Pro	Ser		
65				70					75					80			
Thr	Leu	Val	Ser	Leu	Ile	Ser	Lys	Lys	Arg	Asn	Ile	Ser	Phe	Ser	Gly		
			85					90						95			
Cys	Ala	Val	Gln	Met	Phe	Phe	Gly	Phe	Ala	Met	Gly	Ser	Thr	Glu	Cys		
		100					105						110				
Leu	Leu	Leu	Gly	Met	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn		
	115					120					125						
Pro	Leu	Arg	Tyr	Ser	Ile	Ile	Met	Ser	Lys	Glu	Val	Tyr	Val	Phe	Met		
	130				135				140								
Ala	Ser	Ala	Ser	Trp	Phe	Ser	Gly	Ser	Ile	Asn	Ser	Val	Val	Gln	Thr		
145				150					155					160			
Ser	Leu	Ala	Met	Arg	Leu	Pro	Phe	Cys	Gly	Asn	Asn	Val	Ile	Asn	His		
		165					170						175				
Phe	Thr	Cys	Glu	Val	Leu	Ala	Val	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Ile		
	180					185						190					
Ser	Leu	Asn	Ile	Ile	Thr	Met	Val	Ile	Ser	Asn	Met	Ala	Phe	Leu	Val		
	195				200						205						
Leu	Pro	Leu	Leu	Val	Ile	Phe	Ser	Tyr	Leu	Phe	Ile	Leu	His	Thr			
	210				215					220							
Ile	Leu	Arg	Met	Asn	Ser	Ala	Thr	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr		
225				230					235					240			
Cys	Ser	Ala	His	Leu	Thr	Val	Val	Ile	Ile	Phe	Tyr	Gly	Thr	Ile	Phe		
		245						250					255				
Ser	Met	Tyr	Ala	Lys	Pro	Lys	Ser	Gln	Asp	Leu	Thr	Gly	Gln	Asp	Lys		
	260						265					270					
Phe	Gln	Thr	Ser	Asp	Lys	Ile	Ile	Ser	Leu	Phe	Tyr	Gly	Val	Val	Thr		
	275					280						285					
Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys		
	290				295						300						
Ala	Ala	Val	Lys	Tyr	Ile	Leu	Lys	Gln	Lys	Tyr	Val	Pro					
305					310						315						

<210> 1608  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1608

Met	Glu	Cys	Lys	Arg	Asn	Ile	Ser	Glu	Phe	Leu	Leu	Met	Gly	Leu	Ser
1				5					10					15	
Ser	Lys	Arg	Asn	Ile	Glu	Val	Phe	Cys	Phe	Leu	Phe	Phe	Ser	Phe	Cys
			20					25					30		
Tyr	Leu	Ala	Ile	Leu	Cys	Gly	Asn	Leu	Leu	Ile	Leu	Ile	Ser	Ile	Arg
		35					40					45			
Cys	Ser	Ser	Leu	Phe	Asn	Gln	Pro	Met	Tyr	Tyr	Phe	Leu	Ser	His	Leu
	50					55					60				
Ser	Ser	Met	Asp	Ile	Phe	Tyr	Thr	Ser	Cys	Val	Thr	Pro	Lys	Leu	Ile
65					70					75					80
Gly	Asp	Leu	Leu	Val	Arg	Arg	Lys	Thr	Ile	Ser	Tyr	Thr	Asn	Cys	Met
				85					90					95	
Leu	Gln	Val	Phe	Ala	Met	His	Phe	Phe	Gly	Met	Ile	Glu	Ile	Leu	Ile
			100					105					110		
Leu	Thr	Ala	Met	Ala	Phe	Asp	Arg	Cys	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Met	Val	Ile	Met	Ser	Arg	Ser	Arg	Cys	His	Ile	Leu	Ile	Trp
	130					135					140				
Ala	Ser	Trp	Val	Gly	Gly	Ala	Ala	His	Ser	Leu	Ser	Gln	Phe	Cys	Leu
145					150					155					160
Leu	Ile	Cys	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Glu	Ile	Asp	His	Tyr	Tyr
				165					170					175	
Cys	Asp	Ile	Phe	Pro	Leu	Leu	Lys	Val	Ala	Cys	Thr	Asp	Thr	Thr	Ile
			180					185					190		
Thr	Gly	Val	Leu	Val	Val	Ala	Asn	Ser	Gly	Leu	Ile	Ala	Leu	Val	Thr
		195					200					205			
Phe	Val	Val	Leu	Phe	Gly	Ser	Tyr	Val	Val	Ile	Leu	Phe	Thr	Leu	Arg
	210					215					220				
Asn	Tyr	Ser	Ala	Glu	Gly	Arg	His	Lys	Ala	Leu	Ser	Thr	Cys	Ala	Ser
225					230					235					240
His	Ile	Thr	Val	Val	Ile	Leu	Phe	Phe	Gly	Pro	Ser	Ile	Phe	Ala	Tyr
				245					250					255	
Leu	Arg	Pro	Pro	Thr	Thr	Phe	Pro	Glu	Asp	Lys	Ile	Phe	Ala	Leu	Phe
			260					265					270		
Tyr	Thr	Ile	Ile	Ala	Pro	Met	Phe	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg
		275					280					285			
Asn	Thr	Glu	Met	Lys	Lys	Ala	Met	Lys	Lys	Val	Trp	Cys	Gln	Asn	Met
	290					295					300				
Phe	Ser	Glu	Glu	Lys	His	Ser									
305						310									

<210> 1609  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1609

Met Leu Gly Leu Asn Gly Thr Pro Phe Gln Pro Ala Thr Leu Gln Leu

1		5		10		15
Thr	Gly	Ile	Pro	Gly	Met	Asn
	20			25		30
Phe	Cys	Phe	Leu	Tyr	Phe	Ile
	35			40		45
Ala	Leu	Val	Ile	Arg	Glu	Pro
	50			55		60
Leu	Ser	Met	Leu	Ser	Leu	Asn
	65			70		75
Pro	Thr	Val	Leu	Ala	Thr	Phe
			85			90
Asp	Ala	Cys	Leu	Val	Gln	Met
	100			105		110
Glu	Ser	Gly	Ile	Leu	Leu	Ala
	115			120		125
Cys	Asp	Pro	Leu	Arg	Tyr	Ser
	130			135		140
Ala	Met	Gly	Leu	Gly	Ile	Leu
	145			150		155
Phe	Pro	Phe	Leu	Val	Lys	Arg
			165			170
His	His	Ser	Tyr	Cys	Leu	His
			180			185
Asp	Ile	His	Val	Asn	Asn	Ile
	195			200		205
Tyr	Gly	Val	Asp	Ser	Val	Phe
	210			215		220
Arg	Ala	Val	Leu	Val	Ile	Ala
	225			230		235
Asn	Thr	Cys	Ile	Ser	His	Ile
			245			250
Ile	Ile	Ala	Val	Ser	Met	Ile
			260			265
Val	Val	His	Val	Met	Met	Ser
			275			280
Leu	Asn	Pro	Ile	Ile	Tyr	Ser
	290			295		300
Met	Leu	Lys	Val	Phe	His	Lys
	305			310		

<210> 1610  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1610  
 Met Ala Gly Asn Ala Thr His His Ile Ala Ser Phe Phe Leu Val Gly  
 1 5 10 15  
 Ile Pro Gly Leu Glu Asn Phe His Cys Trp Ile Gly Ile Pro Val Cys  
 20 25 30  
 Leu Leu Phe Ala Leu Thr Leu Leu Gly Asn Ser Ile Ile Leu Thr Thr  
 35 40 45  
 Val Lys Leu Glu Pro Ser Leu His Gln Pro Met Tyr Phe Phe Leu Cys  
 50 55 60  
 Met Leu Ala Met Asn Asp Met Cys Leu Thr Cys Ser Thr Ala Leu Lys  
 65 70 75 80

Met	Leu	Gly	Ile	Phe	Trp	Phe	Asp	Glu	His	Trp	Ile	Asn	Phe	Asp	Ala
			85						90					95	
Cys	Leu	Thr	Gln	Met	Phe	Phe	Ile	His	Thr	Leu	Cys	Ile	Met	Glu	Ser
			100					105					110		
Ala	Ile	Leu	Val	Ala	Met	Ala	Phe	Asp	Arg	Phe	Val	Ala	Ile	Cys	Ile
			115					120				125			
Pro	Leu	His	Tyr	Thr	Ser	Ile	Leu	Thr	Met	Pro	Met	Val	Ile	Lys	Ile
			130				135					140			
Gly	Leu	Val	Gly	Leu	Gly	Arg	Ala	Ile	Leu	Met	Ile	Met	Pro	Cys	Pro
145						150				155					160
Leu	Leu	Ile	Lys	Arg	Leu	Leu	Tyr	Tyr	Thr	Lys	Tyr	Val	Ile	His	His
				165					170					175	
Ala	Tyr	Cys	Glu	His	Met	Ala	Val	Val	Lys	Met	Ala	Ser	Gly	Asn	Thr
			180						185				190		
Gln	Val	Asn	Arg	Ile	Tyr	Gly	Ile	Leu	Val	Ala	Leu	Ser	Val	Thr	Ile
			195				200					205			
Phe	Asp	Leu	Gly	Leu	Ile	Val	Thr	Ser	Tyr	Ile	Lys	Ile	Leu	Gln	Ala
			210				215				220				
Val	Phe	Arg	Leu	Ser	Ser	Gln	Asn	Ala	Arg	Ser	Lys	Ala	Leu	Gly	Thr
225					230					235					240
Cys	Val	Ala	His	Val	Cys	Thr	Ile	Leu	Ala	Phe	Tyr	Thr	Pro	Ala	Leu
				245					250					255	
Phe	Ser	Phe	Leu	Thr	His	Arg	Phe	Gly	Lys	Asn	Val	Pro	Ala	Ser	Ile
			260					265					270		
His	Ile	Ile	Phe	Ala	Ile	Leu	Tyr	Leu	Leu	Val	Ser	Pro	Thr	Val	Asn
			275				280					285			
Pro	Leu	Val	Tyr	Gly	Ala	Lys	Thr	Lys	Gln	Ile	Arg	Asp	Arg	Val	Val
			290			295					300				
Ser	Leu	Leu	Phe	Ser	Gln	Lys	Gln	Lys	Phe						
305					310										

<210> 1611  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1611

Met	Leu	Ile	Phe	Asn	His	Ser	Ser	Phe	Met	Thr	Phe	Thr	Leu	Leu	Gly
1				5					10					15	
Val	Pro	Gly	Leu	Glu	Ser	Gln	His	Leu	Trp	Leu	Ser	Val	Pro	Phe	Thr
			20					25					30		
Ser	Met	Leu	Leu	Ala	Ile	Leu	Ile	Gly	Asn	Gly	Ala	Ile	Leu	Phe	Leu
			35				40					45			
Val	Ile	Thr	Glu	Pro	Thr	Leu	His	Thr	Pro	Met	Tyr	Leu	Leu	Leu	Ala
			50			55					60				
Leu	Leu	Met	Val	Ala	Asp	Leu	Ile	Ser	Thr	Leu	Ala	Leu	Val	Pro	Lys
65					70				75						80
Val	Leu	Cys	Leu	Phe	Trp	Phe	Asp	Asp	Arg	Val	Ile	Ala	Ile	Tyr	Ala
				85				90					95		
Cys	Phe	Thr	Gln	Met	Phe	Phe	Ile	His	Gly	Ala	Ser	Val	Val	Arg	Ser
			100					105					110		
Ala	Leu	Leu	Val	Ala	Met	Ala	Phe	Asp	Arg	Phe	Val	Ala	Val	Cys	Glu
			115					120				125			
Pro	Leu	Arg	Tyr	Asn	Thr	Ile	Leu	Ser	His	Ser	Leu	Val	Gly	Arg	Leu
			130			135					140				
Gly	Leu	Val	Ala	Leu	Ala	Lys	Gly	Val	Ile	Leu	Ile	Leu	Pro	Met	Pro

145		150		155		160									
Leu	Leu	Leu	Gln	Arg	Leu	Thr	Phe	Cys	His	Arg	Val	Ile	Pro	His	Thr
		165		170		175									
Tyr	Cys	Asp	His	Met	Ala	Val	Val	Lys	Met	Ala	Cys	Ser	Asn	Thr	Arg
		180		185		190									
Pro	Asn	Arg	Ile	Tyr	Gly	Leu	Phe	Val	Ile	Leu	Leu	Val	Val	Gly	Leu
		195		200		205									
Asn	Leu	Leu	Leu	Ile	Gly	Phe	Ser	Tyr	Val	Phe	Ile	Leu	Gln	Ser	Val
		210		215		220									
Val	Arg	Leu	Asn	Ser	Arg	Asp	Ala	Thr	Phe	Lys	Ala	Leu	Asn	Thr	Cys
		225		230		235									
Ser	Ala	His	Leu	Phe	Val	Ile	Leu	Ile	Thr	Tyr	Val	Pro	Ala	Leu	Phe
		245		250		255									
Ser	Ser	Ile	Thr	His	Arg	Ile	Gly	His	His	Ile	Pro	Pro	His	Ala	His
		260		265		270									
Ile	Ile	Leu	Ala	Asn	Leu	Tyr	Leu	Leu	Ile	Pro	Ser	Val	Phe	Asn	Pro
		275		280		285									
Ile	Ile	Tyr	Gly	Ile	Lys	Met	Lys	Glu	Ile	Arg	Asp	Arg	Val	Ala	Lys
		290		295		300									
Cys	Leu	Cys	Arg												
		305													

<210> 1612  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1612

Met	Thr	Asn	Phe	Thr	His	Val	Ser	Glu	Phe	Ile	Leu	Leu	Gly	Phe	Lys
1				5					10					15	
Gly	Gly	Pro	Gly	Ile	Gln	Met	Leu	Leu	Phe	Leu	Ile	Phe	Leu	Phe	Leu
			20					25					30		
Tyr	Val	Ile	Ala	Val	Val	Gly	Asn	Phe	Gly	Met	Ile	Ile	Ile	Ile	Arg
			35				40						45		
Met	Asp	Ala	His	Leu	His	Thr	Pro	Met	Tyr	Ala	Phe	Leu	Gln	Ser	Leu
			50			55					60				
Ser	Phe	Leu	Asp	Ile	Cys	Tyr	Ser	Ser	Thr	Ile	Ala	Pro	Arg	Ala	Leu
			65		70				75						80
Ile	Asn	Cys	Met	Lys	Gln	Asp	His	Thr	Ile	Ser	Phe	Ser	Gly	Cys	Ala
			85					90					95		
Thr	Gln	Phe	Phe	Phe	Leu	Ser	Leu	Phe	Gly	Thr	Thr	Glu	Ala	Phe	Leu
			100					105					110		
Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Phe	Ile	Ala	Ile	Cys	Asn	Pro	Leu
			115				120					125			
Leu	Tyr	Ser	Val	Ser	Met	Ser	His	Trp	Val	Cys	Gly	Leu	Leu	Val	Ser
			130			135					140				
Gly	Ser	Tyr	Ser	Trp	Gly	Ala	Val	Asn	Ala	Val	Thr	Gln	Thr	Thr	Met
			145		150				155						160
Thr	Phe	Thr	Leu	Thr	Phe	Cys	Gly	Ser	Asn	Glu	Ile	Asn	Asp	Phe	Phe
			165				170						175		
Cys	Asp	Val	Pro	Pro	Leu	Leu	Ser	Leu	Ser	Cys	Ser	Asp	Thr	Phe	Ile
			180				185					190			
Asn	Gln	Leu	Val	Leu	Leu	Ala	Leu	Cys	Gly	Ser	Ile	Ile	Val	Ser	Thr
			195				200					205			
Phe	Leu	Thr	Val	Phe	Val	Ser	Tyr	Ile	Tyr	Ile	Ile	Ser	Thr	Ile	Leu
			210			215					220				



Lys Ile Arg Thr Val Gln Gly Arg Gln Lys Ala Phe Ser Thr Cys Ala  
 225 230 235 240  
 Ser His Leu Ile Gly Val Cys Leu Phe Phe Gly Thr Val Phe Phe Met  
 245 250 255  
 Tyr Ala Gln Pro Ser Ala Val Ser Ser Met Glu Gln Ser Lys Val Val  
 260 265 270  
 Ser Ile Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro Leu Ile Tyr  
 275 280 285  
 Ser Leu Arg Asn Lys Asp Val Lys Gln Ala Leu Lys Arg Ser Lys Gln  
 290 295 300  
 Arg Phe Cys Ser  
 305

<210> 1613  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1613  
 Met Gln Asn Gln Ser Phe Val Thr Glu Phe Ile Ile Leu Gly Leu Ser  
 1 5 10 15  
 Gln Asn Pro Ile Val Glu Lys Ile Leu Phe Phe Val Leu Leu Val  
 20 25 30  
 Tyr Leu Ala Thr Ile Gly Gly Asn Ile Ile Val Val Thr Ile Met  
 35 40 45  
 Tyr Ser Pro Ala Leu Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Phe  
 50 55 60  
 Leu Ser Phe Leu Asp Leu Cys Val Ser Ser Thr Val Thr Pro Lys Met  
 65 70 75 80  
 Ile Val Asp Phe Phe Tyr Glu Lys Lys Thr Ile Ser Phe Gly Cys Cys  
 85 90 95  
 Met Met Gln Leu Phe Ser Val His Phe Phe Ser Gly Thr Glu Met Ile  
 100 105 110  
 Val Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro  
 115 120 125  
 Leu His Tyr Phe Ser Ile Leu Thr Arg Arg Leu Cys Ser Ile Leu Val  
 130 135 140  
 Ala Ile Ser Trp Ala Gly Gly Phe Leu His Ser Ile Ile Gln Val Ile  
 145 150 155 160  
 Phe Thr Leu Gln Leu Pro Leu Cys Gly Pro Asn Val Ile Asp His Tyr  
 165 170 175  
 Thr Cys Asp Leu Phe Pro Leu Leu Lys Leu Ala Cys Thr Asp Thr His  
 180 185 190  
 Ile Phe Val Leu Leu Val Phe Ala Asn Ser Gly Ala Ile Cys Ile Ile  
 195 200 205  
 Ile Phe Ser Leu Leu Leu Val Ser Tyr Gly Val Ile Leu Phe Ser Leu  
 210 215 220  
 Arg Ala His Ser Ser Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Gly  
 225 230 235 240  
 Ala His Val Thr Val Val Val Leu Phe Leu Val Pro Cys Ile Leu Ile  
 245 250 255  
 Tyr Ala Arg Asp Thr Ser Ala Phe Ser Phe Glu Lys His Thr Leu Leu  
 260 265 270  
 Phe Val Asn Val Leu Thr Pro Leu Leu Asn Pro Thr Val Tyr Thr Phe  
 275 280 285  
 Arg Asn Lys Glu Met Ile Asn Ala Ile Arg Lys Met Cys Lys Arg Leu

290  
Lys Met Ile Phe Val Arg Phe  
305 310

300

<210> 1614  
<211> 320  
<212> PRT  
<213> Mus musculus

<400> 1614  
Met Glu Glu Val Asn Cys Thr Phe Met Ala Glu Phe Ile Leu Leu Gly  
1 5 10 15  
Phe Ser Asp Val Pro Glu Leu Ala Ile Phe Leu Phe Leu Val Phe Leu  
20 25 30  
Val Ile Tyr Gly Val Thr Val Ile Ala Asn Leu Gly Met Thr Val Leu  
35 40 45  
Ile Gln Val Ser Ser Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
50 55 60  
His Leu Ser Phe Val Asp Phe Cys Tyr Ala Ser Ile Ile Val Pro Lys  
65 70 75 80  
Met Phe Thr Asp Ile Ile Asn Gln Asp Gln Val Ile Ser Tyr Leu Glu  
85 90 95  
Cys Met Leu Gln Phe Tyr Leu Phe Cys Thr Phe Ala Ile Thr Glu Val  
100 105 110  
Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys Asn  
115 120 125  
Pro Leu Leu Tyr Thr Val Ile Met Ser Pro Lys Leu Arg Leu Val Leu  
130 135 140  
Val Ser Cys Cys Tyr Leu Tyr Ala Ser Val Cys Ser Leu Ile His Leu  
145 150 155 160  
Cys Leu Ala Leu Glu Ile Thr Ser Phe Lys Ser Asn Val Ile Asn His  
165 170 175  
Phe Phe Cys Asp Leu Pro Pro Leu Leu Ser Leu Ala Cys Ser Asp Val  
180 185 190  
Ser Thr Asn Glu Phe Phe Leu Phe Ile Ile Val Asn Phe Asn Glu Ile  
195 200 205  
Leu Thr Ile Val Ile Ile Phe Thr Ser Tyr Leu Phe Ile Leu Ile Thr  
210 215 220  
Ile Leu Lys Met Arg Ser Ala Glu Gly Arg Arg Lys Ala Phe Ser Thr  
225 230 235 240  
Cys Ala Ser His Leu Thr Val Ile Met Val Phe His Gly Thr Ile Leu  
245 250 255  
Phe Ile Tyr Cys Gln Pro Asn Ser Gly Asn Ser Leu Asp Val Asp Lys  
260 265 270  
Val Thr Thr Val Phe Tyr Thr Val Ile Ile Pro Met Leu Asn Pro Leu  
275 280 285  
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Leu Arg Lys Met  
290 295 300  
Leu Gly Ser Lys Lys Asn Ser Leu Leu Asp Phe Phe Phe Phe Cys Phe  
305 310 315 320

<210> 1615  
<211> 318  
<212> PRT  
<213> Mus musculus

<400> 1615

Met	Ile	Leu	Ser	Glu	Lys	Asn	Asn	Ser	Gly	Ile	Ile	Phe	Thr	Leu	Leu
1				5					10					15	
Gly	Phe	Ser	Asp	Tyr	Pro	Asp	Leu	Lys	Val	Pro	Leu	Phe	Leu	Val	Phe
			20					25					30		
Leu	Val	Ile	Tyr	Ser	Ile	Thr	Val	Val	Gly	Asn	Ile	Gly	Met	Ile	Leu
			35				40						45		
Val	Ile	Arg	Ile	Asn	Pro	Gln	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Ser	His	Leu	Ser	Phe	Val	Asp	Phe	Cys	Tyr	Ser	Ser	Ile	Ile	Ala	Pro
65					70					75					80
Lys	Met	Leu	Val	Asn	Leu	Val	Ala	Lys	Asp	Ile	Thr	Ile	Ser	Phe	Val
				85					90					95	
Glu	Cys	Ile	Val	Gln	Tyr	Phe	Leu	Phe	Cys	Val	Phe	Val	Val	Thr	Glu
			100					105					110		
Ala	Phe	Leu	Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys
			115				120					125			
Asn	Pro	Leu	Leu	Tyr	Thr	Val	Ala	Met	Ser	Gln	Lys	Leu	Cys	Ile	Thr
	130					135					140				
Leu	Val	Val	Gly	Ser	Tyr	Ala	Trp	Gly	Phe	Thr	Cys	Ser	Leu	Thr	Leu
145					150					155					160
Thr	Cys	Ser	Thr	Val	Gln	Leu	Ser	Phe	His	Gly	Val	Asn	Arg	Ile	Asp
				165					170					175	
His	Phe	Phe	Cys	Glu	Leu	Ser	Ser	Leu	Ala	Leu	Ser	Ser	Ser	Ser	Asp
			180					185					190		
Thr	Leu	Ile	Ser	Gln	Leu	Leu	Leu	Phe	Val	Phe	Ala	Thr	Phe	Asn	Ala
			195				200					205			
Val	Ser	Thr	Leu	Leu	Leu	Ile	Leu	Leu	Ser	Tyr	Leu	Phe	Ile	Val	Val
	210					215					220				
Thr	Val	Leu	Lys	Met	Arg	Ser	Ala	Ser	Gly	Arg	Arg	Lys	Ala	Phe	Ser
225					230					235					240
Thr	Cys	Ala	Ser	His	Leu	Ala	Ala	Ile	Thr	Ile	Phe	His	Gly	Thr	Ile
				245					250					255	
Leu	Phe	Leu	Phe	Cys	Val	Pro	Asn	Ser	Lys	Asn	Ser	Arg	Leu	Thr	Val
			260					265					270		
Lys	Val	Gly	Ser	Val	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro
	275						280					285			
Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Gln	Asp	Thr	Ile	Arg	Lys
	290					295					300				
Ile	Met	Thr	Leu	Ile	Ser	Cys	Val	Lys	Asn	Asp	Arg	His	Asn		
305					310					315					

<210> 1616

<211> 317

<212> PRT

<213> Mus musculus

<400> 1616

Met	Lys	Ile	Tyr	Arg	Arg	Met	Thr	His	Gly	Asn	Tyr	Ser	Leu	Val	Thr
1				5					10					15	
Glu	Phe	Ile	Leu	Glu	Gly	Leu	Thr	Asn	Arg	Pro	Glu	Leu	Gln	Met	Pro
			20					25					30		
Leu	Phe	Phe	Leu	Phe	Leu	Gly	Ile	Tyr	Val	Val	Thr	Ile	Val	Ala	Asn
			35				40					45			
Leu	Gly	Leu	Ile	Thr	Leu	Ile	Ser	Leu	Asn	Thr	His	Leu	His	Thr	Pro

50		55		60
Met Tyr Tyr Phe Leu Phe Asn Leu Ser Phe Val Asp Ile Cys Tyr Ser				
65		70		75
Ser Val Phe Thr Pro Lys Met Leu Ile Asn Phe Val Val Glu Lys Asn				80
	85		90	
Thr Ile Ser Tyr Thr Gly Cys Leu Thr Gln Leu Tyr Phe Phe Cys Phe				95
	100		105	
Phe Val Ile Thr Glu Cys Tyr Leu Leu Thr Ala Met Ala Tyr Asp Arg				110
	115		120	
Tyr Val Ala Ile Cys Lys Pro Leu Leu Tyr Asn Val Ile Leu Ser Pro				125
	130		135	
Arg Ile Cys Ala Val Phe Val Phe Gly Ala Tyr Val Met Gly Cys Trp				140
145		150		155
Gly Ser Leu Ala His Thr Leu Cys Met Ala Arg Leu Thr Phe Cys Asp				160
	165		170	
Ala Asn Leu Val Asn His Tyr Leu Cys Asp Ile Leu Pro Val Leu Gln				175
	180		185	
Leu Ser Cys Thr Ser Thr Tyr Asn Asn Glu Val Val Val Phe Val Leu				190
	195		200	
Val Gly Met Asn Ile Val Val Ser Thr Ser Thr Thr Phe Ile Ser Tyr				205
	210		215	
Gly Phe Ile Ile Ala Asn Ile Leu Arg Ile Ser Ser Thr Gln Asp Arg				220
225		230		235
Ala Lys Ala Phe Asn Thr Cys Ser Ser His Ile Met Thr Val Ser Leu				240
	245		250	
Phe Phe Gly Ala Ala Ala Phe Met Tyr Met Gln Pro Ser Asp Val Glu				255
	260		265	
Ser Met Asp Lys Gly Lys Val Ala Ser Val Phe Tyr Thr Asn Val Gly				270
	275		280	
Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys				285
	290		295	
Val Ala Leu Lys Lys Thr Leu Lys Arg Lys Leu Phe Ser				300
305		310		315

<210> 1617  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1617

Met Asn His Ser Ser Val Thr Asp Phe Ile Leu Glu Gly Leu Thr Lys	
1	5
Arg Pro Glu Leu Gln Leu Pro Leu Phe Leu Leu Phe Leu Gly Ile His	
	20
Val Ile Thr Val Val Gly Asn Leu Gly Met Ile Leu Leu Ile Asn Ile	
	35
Ser Ser Gln Leu His Ser Pro Met Tyr Tyr Phe Leu Ser His Leu Ser	
50	55
Phe Ile Asp Leu Cys Tyr Ser Ser Val Ile Thr Pro Lys Met Leu Val	
65	70
Asn Phe Val Cys Ala Lys Asn Thr Ile Ser Phe Lys Glu Cys Met Thr	
	85
Gln Leu Tyr Phe Phe Leu Leu Leu Ala Ile Ser Glu Gly Tyr Leu Leu	
	100
Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser Pro Leu Leu	
	115
	120
	125

Tyr	Asn	Thr	Val	Met	Ser	His	Lys	Val	Cys	Ser	Ile	Met	Met	Ala	Val
130						135					140				
Val	Tyr	Ser	Leu	Gly	Phe	Phe	Gly	Ala	Thr	Val	His	Thr	Thr	Arg	Met
145					150					155					160
Thr	Met	Leu	Ser	Phe	Cys	Gly	Ser	His	Ile	Ile	Arg	His	Tyr	Phe	Cys
				165					170					175	
Asp	Ile	Leu	Pro	Leu	Leu	Thr	Leu	Ser	Cys	Ser	Ser	Thr	His	Ile	Asn
			180					185					190		
Glu	Val	Leu	Leu	Phe	Ile	Ile	Gly	Gly	Val	Asn	Thr	Leu	Ala	Pro	Thr
		195					200					205			
Leu	Ala	Val	Ile	Ile	Ser	Tyr	Ala	Phe	Ile	Leu	Thr	Ser	Ile	Leu	Arg
	210					215					220				
Ile	Arg	Ser	Asn	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Gly	Thr	Cys	Ser	Ser
225					230					235					240
His	Ile	Met	Ala	Val	Gly	Ile	Phe	Phe	Gly	Ser	Ile	Thr	Phe	Met	Tyr
				245					250					255	
Phe	Lys	Pro	Pro	Ser	Ser	Asn	Asn	Met	Glu	Gln	Glu	Lys	Val	Ser	Ser
			260				265						270		
Val	Phe	Tyr	Thr	Thr	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser
		275				280						285			
Leu	Arg	Asn	Lys	Asp	Val	Lys	Thr	Ala	Leu	Lys	Lys	Met	Val	Gly	Arg
	290					295					300				
Arg	Gln	Leu	Ser												
305															

<210> 1618  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 1618

Met	Pro	Gly	Val	Asn	Thr	Ser	Ser	Leu	Thr	Pro	Arg	Tyr	Phe	Ile	Leu
1				5					10					15	
Asn	Gly	Ile	Pro	Gly	Leu	Glu	Ala	Ala	His	Ile	Trp	Ile	Ser	Leu	Pro
			20				25						30		
Phe	Phe	Ile	Met	Tyr	Leu	Ile	Ala	Val	Thr	Gly	Asn	Cys	Gly	Leu	Ile
		35					40					45			
Tyr	Leu	Ile	Ser	His	Glu	Glu	Ala	Leu	His	Arg	Pro	Met	Tyr	Tyr	Phe
	50					55					60				
Leu	Ala	Met	Leu	Ser	Ala	Thr	Asp	Ile	Ser	Gly	Cys	Asn	Thr	Ile	Val
65					70					75					80
Pro	Ser	Met	Leu	Cys	Ile	Phe	Trp	Phe	Ser	Val	Lys	Glu	Ile	Asp	Phe
				85					90					95	
Asn	Ala	Cys	Leu	Val	Gln	Met	Phe	Phe	Ile	His	Met	Leu	Thr	Gly	Met
			100					105					110		
Glu	Ser	Gly	Val	Leu	Met	Leu	Met	Ala	Leu	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Cys	Tyr	Pro	Leu	Arg	Tyr	Thr	Thr	Ile	Leu	Thr	Asn	Thr	Met	Ile	Thr
	130					135					140				
Lys	Ile	Gly	Leu	Ala	Ala	Leu	Val	Arg	Ser	Val	Leu	Leu	Met	Val	Pro
145					150					155					160
Phe	Ala	Phe	Leu	Ile	Lys	Arg	Leu	Pro	Tyr	Cys	Arg	Gly	Asn	Leu	Ile
				165					170					175	
Gln	His	Thr	Tyr	Cys	Asp	His	Met	Ala	Val	Ala	Lys	Leu	Ser	Cys	Gly
		180					185						190		
Asn	Ile	Lys	Ile	Asn	Ala	Ile	Tyr	Gly	Leu	Ile	Ile	Ala	Ile	Phe	Ile

	195		200		205
Gly	Gly Phe Asp Ile Phe Cys Ile Ser Met Ser Tyr Ala Met Ile Ile				
	210		215		220
His	Ala Val Val Lys Leu Ser Ser Ala Asp Ala Arg His Lys Ala Phe				
225		230		235	240
Ser	Thr Cys Thr Ser His Ile Cys Ala Ile Val Ile Thr Tyr Val Pro				
	245		250		255
Ala	Phe Phe Asn Phe Phe Thr His Arg Phe Gly Arg Thr Thr Ile Pro				
	260		265		270
His	His Ile His Ile Ile Ile Ala Asn Leu Tyr Leu Leu Leu Pro Pro				
	275		280		285
Thr	Leu Asn Pro Ile Val Tyr Gly Val Lys Thr Lys Gln Ile Arg Glu				
	290		295		300
Gly	Val Ile Lys Leu Phe Ala Arg Gln Lys Val Val				
305		310		315	

<210> 1619  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1619

Met	Tyr	Asn	Leu	Ser	Cys	Tyr	Asn	Pro	Ala	Ser	Phe	Thr	Leu	Val	Gly
1			5					10					15		
Ile	Pro	Gly	Leu	Glu	Lys	Phe	His	Ile	Trp	Ile	Gly	Ile	Pro	Phe	Cys
		20						25				30			
Val	Ile	Tyr	Val	Val	Ala	Ile	Val	Gly	Asn	Cys	Ile	Leu	Leu	Tyr	Leu
	35					40					45				
Ile	Ala	Val	Glu	Gln	Ser	Leu	His	Glu	Pro	Met	Phe	Ile	Phe	Leu	Ser
	50				55					60					
Met	Leu	Ala	Ser	Thr	Asp	Leu	Ile	Leu	Ser	Thr	Ala	Thr	Val	Pro	Lys
65				70					75					80	
Leu	Leu	Ser	Asn	Leu	Trp	Phe	Gly	Ser	Gln	Glu	Ile	Thr	Phe	Ser	Gly
		85						90					95		
Cys	Leu	Thr	Gln	Met	Phe	Phe	Leu	His	Phe	Ser	Phe	Val	Val	Asp	Ser
	100						105					110			
Ala	Ile	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Leu
	115					120					125				
Pro	Leu	Arg	Tyr	Ser	Thr	Ile	Leu	Thr	Pro	Gln	Val	Ile	Val	Lys	Ile
	130				135				140						
Met	Val	Ser	Ile	Ile	Val	Arg	Ser	Phe	Ser	Val	Ile	Leu	Pro	Asp	Val
145				150					155					160	
Phe	Leu	Leu	Arg	Arg	Leu	Pro	Phe	Cys	Lys	Thr	Arg	Val	Ile	Pro	His
		165						170					175		
Thr	Tyr	Cys	Glu	His	Ile	Gly	Val	Ala	Arg	Leu	Ser	Ser	Ala	Asp	Ile
	180					185						190			
Ser	Ile	Asn	Ile	Trp	Tyr	Gly	Phe	Ser	Val	Pro	Leu	Met	Thr	Val	Ile
	195					200				205					
Ser	Asp	Val	Ile	Leu	Ile	Ala	Val	Ser	Tyr	Ile	Phe	Ile	Leu	Arg	Ala
	210				215					220					
Val	Phe	Leu	Leu	Ser	Ser	Gln	Gly	Ala	Arg	Gln	Lys	Ala	Leu	Ser	Thr
225				230					235					240	
Cys	Gly	Ser	His	Ile	Cys	Val	Ile	Leu	Met	Phe	Tyr	Thr	Pro	Ala	Phe
		245						250					255		
Phe	Ser	Ile	Leu	Ala	His	Arg	Phe	Gly	His	Ser	Val	Pro	Arg	Asn	Val
		260						265					270		

Leu Ile Leu Phe Ala Asn Phe Tyr Val Ala Ile Pro Pro Ala Leu Asn  
           275                          280                          285  
 Pro Val Val Tyr Gly Val Lys Thr Lys Gln Ile Gln Asp Lys Phe Leu  
           290                          295                          300  
 Leu Phe Phe Ser Leu Arg Lys Thr Gln  
 305                          310

<210> 1620  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1620  
 Met Thr Ala Leu Ser Val Thr Asn Tyr Thr Ser Ser Arg Phe Ala Leu  
   1                          5                          10                          15  
 Thr Gly Phe Pro Gly Leu Glu Ile Tyr Tyr Phe Trp Ile Ser Val Pro  
           20                          25                          30  
 Phe Phe Ile Ile Tyr Val Thr Val Phe Leu Gly Asn Cys Met Val Leu  
           35                          40                          45  
 His Val Ile Arg Thr Glu Leu Ser Leu His Gln Pro Met Phe Tyr Phe  
           50                          55                          60  
 Leu Ala Met Leu Ala Leu Thr Asp Leu Cys Met Gly Leu Ser Thr Val  
 65                          70                          75                          80  
 His Thr Val Met Gly Ile Leu Trp Gly Phe Leu Gln Glu Ile Ser Leu  
           85                          90                          95  
 Asp Ala Cys Ile Ala Gln Ser Tyr Phe Ile His Gly Leu Ser Phe Met  
           100                          105                          110  
 Glu Ser Ser Val Leu Leu Thr Met Ser Phe Asp Arg Tyr Ile Ala Ile  
           115                          120                          125  
 Cys Asn Pro Leu Arg Tyr Ser Ser Ile Leu Thr Asn Asp Arg Ile Leu  
           130                          135                          140  
 Lys Ile Gly Val Ala Ile Leu Cys Arg Ser Ser Met Leu Ile Pro Pro  
 145                          150                          155                          160  
 Val Ile Ile Arg Leu Lys Phe Leu Asn Tyr Cys Arg Pro His Phe Leu  
           165                          170                          175  
 Ser His Ser Phe Cys Leu His Gln Asp Leu Ile Arg Met Ala Cys Gly  
           180                          185                          190  
 Asp Ile Arg Phe Asn Ser Ile Tyr Gly Leu Ala Leu Val Ile Ser Asn  
           195                          200                          205  
 Leu Leu Val Asp Ser Val Leu Ile Leu Ile Ser Tyr Ile Met Ile Leu  
           210                          215                          220  
 Tyr Thr Val Leu Ser Ile Ala Ser Arg Glu Glu Arg Ile Lys Ser Leu  
 225                          230                          235                          240  
 Gln Thr Cys Val Ser His Ile Ser Ala Val Leu Val Phe Tyr Ile Pro  
           245                          250                          255  
 Ile Ile Gly Leu Thr Met Val His Arg Phe Gly Lys His Leu Ser Pro  
           260                          265                          270  
 Leu Val His Val Leu Met Gly Asn Val Tyr Ile Leu Phe Pro Pro Leu  
           275                          280                          285  
 Met Asn Pro Ile Ile Tyr Ser Ile Lys Thr Gln Gln Ile Arg Val Arg  
           290                          295                          300  
 Ile Gln Arg Leu Phe Leu Lys Gly Thr  
 305                          310

<210> 1621

<211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1621

Met	Val	Val	Thr	Asn	Gly	Ser	Leu	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Thr	Asp	Asn	Pro	Asp	Leu	Gln	Ile	Pro	Leu	Phe	Leu	Val	Phe	Leu
			20					25					30		
Val	Met	Tyr	Met	Ile	Thr	Ala	Phe	Gly	Asn	Leu	Thr	Leu	Ile	Leu	Leu
		35					40					45			
Thr	Val	Leu	Asn	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Phe
	50					55					60				
Asn	Leu	Ser	Phe	Ile	Asp	Leu	Cys	Tyr	Ser	Ser	Val	Val	Thr	Pro	Lys
65					70				75						80
Leu	Leu	Met	Asn	Phe	Val	Leu	Lys	Lys	Asn	Ile	Ile	Gly	Phe	Ala	Gly
			85						90					95	
Cys	Met	Thr	Gln	Leu	Tyr	Phe	Phe	Cys	Phe	Phe	Val	Ile	Ser	Glu	Cys
			100					105					110		
Tyr	Val	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
	115						120					125			
Pro	Leu	Met	Tyr	Asn	Val	Thr	Met	Ser	Pro	Lys	Val	Cys	Ser	Tyr	Leu
	130					135					140				
Met	Leu	Gly	Ser	Tyr	Leu	Met	Gly	Phe	Ser	Asp	Ala	Met	Ile	His	Thr
145					150				155						160
Gly	Cys	Ile	Leu	Arg	Leu	Thr	Phe	Cys	Asp	Gly	Asn	Thr	Ile	Asn	His
			165						170					175	
Tyr	Phe	Cys	Asp	Leu	Leu	Pro	Leu	Met	Gln	Leu	Ser	Cys	Thr	Ser	Thr
			180					185					190		
Tyr	Ile	Asn	Glu	Val	Glu	Ile	Phe	Ile	Val	Gly	Gly	Lys	Asp	Ile	Thr
	195						200					205			
Val	Pro	Ser	Ile	Val	Ile	Ile	Ile	Ser	Tyr	Gly	Phe	Ile	Leu	Ser	Asn
	210					215					220				
Ile	Leu	Gln	Ile	Lys	Ser	Thr	Gly	Gly	Arg	Ser	Lys	Ala	Phe	Asn	Thr
225					230				235						240
Cys	Ser	Ser	His	Ile	Ile	Ala	Val	Ser	Leu	Phe	Phe	Gly	Ser	Cys	Ala
			245						250					255	
Phe	Met	Tyr	Leu	Lys	Pro	Pro	Ser	Ala	Gly	Ser	Leu	Asn	Glu	Gly	Lys
			260				265						270		
Val	Ser	Ser	Val	Phe	Tyr	Thr	Ile	Val	Val	Pro	Met	Met	Asn	Pro	Leu
	275						280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Leu	Ala	Leu	Arg	Lys	Thr
	290				295						300				
Leu	Ser	Arg	Arg	Lys	Phe										
305					310										

<210> 1622  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1622

Met	Val	Leu	Thr	Asn	His	Ser	Leu	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Thr	Asp	Asn	Pro	Asp	Leu	Gln	Ile	Pro	Leu	Phe	Leu	Val	Phe	Leu
			20					25					30		



Val	Met	Tyr	Met	Ile	Thr	Ala	Phe	Gly	Asn	Leu	Thr	Leu	Ile	Phe	Leu
	35						40					45			
Thr	Val	Leu	Asn	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Phe
	50					55					60				
Asn	Leu	Ser	Phe	Ile	Asp	Leu	Cys	Tyr	Ser	Ser	Val	Val	Thr	Pro	Lys
65					70				75						80
Leu	Leu	Met	Asn	Phe	Val	Leu	Lys	Lys	Asn	Ile	Ile	Gly	Phe	Ala	Gly
			85					90						95	
Cys	Met	Thr	Gln	Leu	Tyr	Phe	Phe	Cys	Phe	Phe	Val	Ile	Ser	Glu	Cys
			100					105					110		
Tyr	Val	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
	115						120					125			
Pro	Leu	Met	Tyr	Asn	Val	Thr	Met	Ser	Pro	Lys	Val	Cys	Ser	Tyr	Leu
	130					135					140				
Met	Leu	Gly	Ser	Tyr	Leu	Met	Gly	Phe	Ser	Asp	Ala	Met	Ile	His	Thr
145					150					155					160
Gly	Cys	Ile	Leu	Arg	Leu	Thr	Phe	Cys	Asp	Gly	Asn	Thr	Ile	Asn	His
				165					170					175	
Tyr	Phe	Cys	Asp	Leu	Leu	Pro	Leu	Met	Gln	Leu	Ser	Cys	Thr	Ser	Thr
			180					185					190		
Tyr	Ile	Asn	Glu	Val	Glu	Ile	Phe	Ile	Val	Gly	Gly	Lys	Asp	Ile	Thr
	195					200						205			
Val	Pro	Ser	Ile	Val	Val	Phe	Ile	Ser	Tyr	Gly	Phe	Ile	Leu	Ser	Asn
	210					215					220				
Ile	Leu	Gln	Ile	Lys	Ser	Thr	Gly	Gly	Arg	Tyr	Lys	Ala	Phe	Asn	Thr
225					230					235					240
Cys	Ser	Ser	His	Ile	Ile	Ala	Val	Ser	Leu	Phe	Phe	Gly	Ser	Cys	Ala
			245					250						255	
Phe	Met	Tyr	Leu	Lys	Pro	Ser	Ser	Val	Gly	Ser	Leu	Asn	Glu	Gly	Lys
			260					265					270		
Val	Ser	Ser	Val	Phe	Tyr	Thr	Ile	Val	Val	Pro	Met	Met	Asn	Pro	Leu
	275					280						285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Leu	Ala	Leu	Arg	Lys	Thr
	290				295						300				
Leu	Ser	Arg	Lys	Lys	Phe										
305					310										

<210> 1623  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1623

Met	Glu	Asn	Tyr	Thr	Arg	Val	Lys	Glu	Leu	Ile	Phe	Leu	Gly	Leu	Thr
1				5					10					15	
Gln	Ser	Gln	Glu	Val	Ser	Met	Val	Leu	Phe	Leu	Phe	Leu	Leu	Leu	Val
		20						25					30		
Tyr	Val	Thr	Thr	Leu	Leu	Gly	Asn	Leu	Leu	Ile	Met	Val	Thr	Val	Thr
		35				40					45				
Cys	Glu	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Arg	Asn	Leu
	50				55					60					
Ser	Val	Ala	Asp	Ile	Cys	Phe	Ser	Ser	Ile	Thr	Ala	Pro	Lys	Val	Leu
65					70				75						80
Val	Asp	Leu	Leu	Ser	Asp	Arg	Lys	Thr	Ile	Ser	Phe	Asn	Gly	Cys	Leu
			85					90					95		
Thr	Gln	Met	Phe	Phe	Phe	His	Leu	Ile	Gly	Gly	Val	Asp	Val	Phe	Ser



Cys	Asp	Met	Tyr	Pro	Leu	Leu	Gly	Leu	Ala	Cys	Thr	Asp	Thr	Tyr	Leu
			180					185					190		
Ile	Gly	Leu	Thr	Val	Val	Ala	Asn	Gly	Gly	Ala	Ile	Cys	Met	Thr	Val
		195					200					205			
Phe	Ile	Leu	Leu	Leu	Val	Ser	Tyr	Gly	Ile	Ile	Leu	Asn	Ser	Leu	Lys
		210				215					220				
Ser	His	Ser	Glu	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Ser	Ser
					230					235					240
His	Ile	Ile	Val	Val	Val	Leu	Phe	Phe	Val	Pro	Cys	Ile	Phe	Met	Tyr
					245				250					255	
Val	Arg	Pro	Val	Ser	Asn	Phe	Pro	Ile	Asp	Lys	Ser	Leu	Thr	Val	Val
			260					265						270	
Tyr	Thr	Val	Ile	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg
		275					280					285			
Asn	Ala	Glu	Met	Lys	Asn	Ser	Met	Lys	Lys	Leu	Trp	Cys	Glu	Arg	Leu
		290				295					300				
Thr	Met	Glu	Arg	Leu	Arg	Met	Phe	Pro	His						
		305				310									

<210> 1625  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1625

Met	Ala	Val	Thr	Asn	Glu	Ser	His	Pro	Lys	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Phe	Ala	Asn	His	Pro	Trp	Leu	Glu	Leu	Pro	Leu	Phe	Val	Thr	Leu	Leu
			20					25					30		
Ile	Thr	Tyr	Pro	Met	Ala	Leu	Met	Gly	Asn	Ile	Ala	Ile	Ile	Leu	Val
		35				40						45			
Ser	Thr	Leu	Asp	Pro	Arg	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Thr
		50				55					60				
Asn	Leu	Ser	Phe	Leu	Asp	Met	Cys	Tyr	Thr	Thr	Ser	Ile	Val	Pro	Gln
				70					75						80
Met	Leu	Phe	Asn	Leu	Gly	Ser	Ser	Arg	Lys	Thr	Ile	Thr	Tyr	Ile	Gly
			85					90						95	
Cys	Val	Val	Gln	Leu	Tyr	Val	Phe	His	Ile	Met	Gly	Gly	Thr	Glu	Cys
			100				105						110		
Leu	Leu	Leu	Ala	Ile	Met	Ser	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
		115				120						125			
Pro	Leu	His	Tyr	Thr	Leu	Ile	Met	Asn	Gln	Arg	Val	Cys	Ile	Leu	Leu
		130				135					140				
Val	Ser	Ile	Met	Trp	Leu	Thr	Gly	Val	Ile	Phe	Ala	Phe	Ser	Glu	Ala
				150						155					160
Thr	Leu	Thr	Leu	Gln	Leu	Pro	Leu	Cys	Gly	Ile	His	Lys	Leu	Asp	His
				165					170					175	
Leu	Leu	Cys	Glu	Ile	Pro	Val	Leu	Ile	Lys	Thr	Ala	Cys	Gly	Glu	Lys
			180					185					190		
Glu	Ser	Asn	Glu	Leu	Ala	Leu	Ser	Val	Val	Cys	Ile	Phe	Ile	Leu	Ala
		195				200						205			
Val	Pro	Leu	Cys	Leu	Ile	Leu	Ala	Ser	Tyr	Val	Asn	Ile	Gly	Cys	Ala
		210				215					220				
Val	Leu	Arg	Ile	Lys	Ser	Ser	Glu	Gly	Arg	Lys	Lys	Ala	Phe	Gly	Thr
				230					235						240
Cys	Ser	Ser	His	Leu	Val	Val	Val	Ser	Leu	Phe	Tyr	Gly	Pro	Ala	Ile



<210> 1627  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1627  
 Met Ala Leu Glu Asn Ala Ser Leu Val Thr Glu Phe Ile Leu Met Gly  
 1 5 10 15  
 Leu Thr Asn Arg Pro Asp Leu Gln Ile Pro Leu Phe Leu Leu Phe Leu  
 20 25 30  
 Val Met Tyr Val Ile Ala Thr Leu Gly Asn Leu Ala Leu Ile Met Leu  
 35 40 45  
 Ile Ile Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Leu  
 50 55 60  
 Asn Leu Ser Cys Ile Asp Leu Phe Tyr Cys Ser Val Ile Thr Pro Lys  
 65 70 75 80  
 Met Leu Met Asn Phe Val Leu Lys Lys Asn Val Ile Ser Tyr Glu Gly  
 85 90 95  
 Cys Met Ala Gln Phe Tyr Phe Phe Ala Phe Phe Ala Ile Ser Glu Cys  
 100 105 110  
 Tyr Val Leu Thr Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn  
 115 120 125  
 Pro Leu Leu Tyr Asn Ile Val Met Ser Pro Lys Leu Cys Ser Tyr Leu  
 130 135 140  
 Met Met Gly Thr Tyr Leu Met Gly Phe Ser Gly Ala Met Ile His Thr  
 145 150 155 160  
 Gly Cys Ile Leu Arg Leu Thr Phe Cys Asp Lys Asn Thr Ile Asn His  
 165 170 175  
 Tyr Phe Cys Asp Ile Leu Pro Leu Leu Gln Ile Ser Cys Thr Ser Thr  
 180 185 190  
 Tyr Val Asn Glu Ile Glu Leu Phe Ile Val Ala Gly Lys Asp Ile Ile  
 195 200 205  
 Val Pro Thr Val Ile Ile Phe Thr Ser Tyr Gly Phe Ile Leu Ser Ser  
 210 215 220  
 Ile Leu Lys Ile Ser Ser Thr Ala Gly Met Ser Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ser Ser His Ile Ile Ala Leu Cys Leu Phe Phe Gly Ser Cys Thr  
 245 250 255  
 Phe Met Tyr Leu Lys Pro Ser Ser Val Glu Ser Met Asp Gln Gly Lys  
 260 265 270  
 Ile Ser Ser Val Phe Tyr Asn Ile Val Val Pro Leu Met Asn Pro Leu  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Ile Ala Ile Lys Lys Thr  
 290 295 300  
 Ile Thr Ile Gly Lys Phe  
 305 310

<210> 1628  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1628  
 Met Gly Phe Glu Asn Gly Ser Ser Val Thr Glu Phe Ile Leu Val Gly

1				5				10					15			
Leu	Thr	Lys	Glu	Ser	Asp	Leu	Gln	Cys	Pro	Leu	Phe	Ile	Leu	Phe	Leu	
			20					25					30			
Met	Met	Tyr	Val	Val	Thr	Val	Leu	Gly	Asn	Gln	Gly	Leu	Ile	Ser	Leu	
		35					40					45				
Ile	Gly	Leu	Asn	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Phe	
	50					55					60					
Asn	Leu	Ser	Phe	Val	Asp	Leu	Trp	Tyr	Ser	Ser	Val	Phe	Thr	Pro	Lys	
65					70					75					80	
Met	Leu	Glu	Ser	Phe	Ile	Ser	Glu	Lys	Asn	Thr	Ile	Ser	Tyr	Arg	Gly	
				85					90					95		
Cys	Met	Ala	Gln	Leu	Phe	Phe	Phe	Cys	Phe	Phe	Ser	Ile	Ser	Glu	Cys	
			100					105					110			
Tyr	Ile	Leu	Thr	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	
		115					120					125				
Pro	Leu	Leu	Tyr	Asn	Ile	Val	Met	Ser	Pro	Lys	Leu	Cys	Leu	Ile	Leu	
		130				135					140					
Met	Phe	Ser	Ser	Tyr	Met	Met	Ala	Phe	Ser	Gly	Ala	Met	Ala	His	Thr	
145					150					155					160	
Gly	Cys	Met	Leu	Arg	Leu	Thr	Phe	Cys	Asp	Ala	Asn	Thr	Ile	Asn	His	
				165					170					175		
Tyr	Phe	Cys	Asp	Ile	Leu	Pro	Val	Met	Gln	Leu	Ser	Cys	Thr	Ser	Thr	
		180						185					190			
Tyr	Val	Asn	Glu	Leu	Glu	Val	Phe	Val	Val	Val	Gly	Ile	Asn	Ile	Ile	
		195					200					205				
Val	Pro	Thr	Ile	Thr	Ile	Phe	Ile	Ser	Tyr	Gly	Phe	Ile	Ile	Ser	Ser	
		210				215					220					
Ile	Phe	Arg	Ile	Ser	Ser	Lys	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	
225					230					235					240	
Cys	Ser	Ser	His	Ile	Ile	Ala	Val	Ser	Leu	Phe	Phe	Gly	Ser	Gly	Ala	
			245					250					255			
Phe	Met	Tyr	Leu	Lys	Pro	Ser	Ser	Ala	Glu	Ser	Met	Asn	Glu	Gly	Lys	
		260						265					270			
Ile	Ser	Ser	Ile	Phe	Tyr	Thr	Asn	Thr	Val	Pro	Leu	Leu	Asn	Pro	Leu	
		275					280					285				
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asp	Ala	Leu	Ile	Lys	Thr	
	290					295					300					
Leu	Ser	Lys	Arg	Lys	Arg											
305					310											

<210> 1629  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1629  
 Met Ala Phe Gly Asn Arg Ser Phe Val Thr Glu Phe Ile Leu Ile Gly  
 1 5 10 15  
 Leu Thr Asp Gln Pro Asn Leu Gln Leu Pro Leu Phe Phe Leu Phe Leu  
 20 25 30  
 Val Met Tyr Ile Val Thr Met Thr Gly Asn Leu Gly Leu Val Ile Leu  
 35 40 45  
 Ile Gly Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Phe  
 50 55 60  
 Asn Leu Ser Leu Ile Asp Leu Cys Tyr Ser Ser Val Phe Thr Pro Lys  
 65 70 75 80

Met	Leu	Leu	Asn	Phe	Ile	Leu	Asn	Lys	Asn	Ile	Ile	Ser	Tyr	Thr	Gly
			85						90					95	
Cys	Met	Thr	Gln	Leu	Tyr	Phe	Tyr	Ser	Phe	Phe	Val	Ile	Ser	Glu	Cys
			100					105					110		
Tyr	Val	Leu	Met	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
		115					120					125			
Pro	Leu	Leu	Tyr	Asn	Ile	Ala	Met	Thr	Pro	Lys	Ile	Cys	Ser	Tyr	Leu
	130					135					140				
Met	Leu	Gly	Ser	Tyr	Leu	Met	Ala	Phe	Ser	Gly	Ala	Met	Ala	His	Thr
145					150					155					160
Gly	Cys	Met	Leu	Arg	Leu	Thr	Phe	Cys	Asp	Ala	Asn	Thr	Ile	Asn	His
			165						170					175	
Tyr	Phe	Cys	Asp	Ile	Leu	Pro	Val	Met	Gln	Leu	Ser	Cys	Thr	Ser	Thr
			180					185					190		
Tyr	Val	Asn	Glu	Leu	Glu	Val	Phe	Ile	Val	Val	Gly	Ile	Asn	Ile	Leu
		195					200					205			
Val	Pro	Ser	Ile	Thr	Ile	Phe	Ile	Ser	Tyr	Gly	Phe	Ile	Leu	Ser	Ser
	210					215					220				
Ile	Phe	His	Ile	Asn	Ser	Asn	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr
225				230					235						240
Cys	Ser	Ser	His	Ile	Ile	Ala	Val	Ser	Leu	Phe	Phe	Gly	Ser	Gly	Ala
			245					250						255	
Phe	Met	Tyr	Leu	Lys	Pro	Ser	Ser	Ala	Gly	Ser	Met	Asp	Glu	Gly	Lys
		260						265				270			
Ile	Ser	Ser	Val	Phe	Tyr	Thr	Asn	Val	Val	Pro	Met	Met	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Val	Ala	Leu	Arg	Ile	Thr
	290				295						300				
Leu	Ser	Arg	Trp	Lys	Leu	Leu									
305					310										

<210> 1630  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1630

Met	Asp	Ser	Val	Asn	Val	Ser	Leu	Val	Thr	Glu	Phe	Leu	Leu	Val	Gly
1			5						10					15	
Leu	Thr	His	Gln	Pro	Asp	Leu	Gln	Ile	Pro	Leu	Phe	Leu	Leu	Phe	Leu
			20					25					30		
Ala	Met	Tyr	Leu	Val	Thr	Ala	Leu	Gly	Asn	Leu	Gly	Leu	Ile	Ile	Leu
	35					40					45				
Val	Leu	Leu	Asn	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Phe
	50				55						60				
Asn	Leu	Ser	Phe	Ile	Asp	Phe	Cys	Tyr	Ser	Ser	Val	Phe	Ala	Pro	Lys
65				70					75					80	
Met	Leu	Met	Asn	Phe	Ile	Leu	Arg	Gln	Asn	Ala	Ile	Ser	Tyr	Met	Gln
			85					90						95	
Cys	Met	Thr	Gln	Leu	Tyr	Phe	Phe	Phe	Phe	Phe	Val	Val	Ser	Glu	Cys
			100					105					110		
Phe	Val	Leu	Thr	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
		115				120						125			
Pro	Phe	Leu	Tyr	Asn	Val	Met	Ile	Ser	Pro	Gln	Val	Cys	Leu	Asn	Leu
	130					135					140				
Met	Ile	Gly	Ser	Tyr	Leu	Met	Ala	Phe	Ser	Glu	Ala	Val	Val	Leu	Thr

145					150					155				160
Val	Cys	Met	Leu	Thr	Leu	Thr	Phe	Cys	Asp	Gly	Asn	Ile	Asn	Tyr
				165					170					175
Phe	Cys	Asp	Ile	Leu	Ala	Leu	Phe	Gln	Leu	Ser	Cys	Ser	Ser	Tyr
			180					185					190	
Val	Asn	Lys	Leu	Val	Ala	Tyr	Val	Ile	Val	Val	Ile	Asn	Ile	Phe
		195					200					205		
Ser	Thr	Pro	Ala	Ile	Phe	Ile	Ser	Tyr	Gly	Phe	Ile	Leu	Ser	Ile
	210					215					220			
Phe	Arg	Ile	Ser	Ser	Ser	Lys	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Cys
225					230					235				240
Ser	Ser	His	Ile	Ile	Ala	Val	Ser	Leu	Phe	Phe	Gly	Ser	Arg	Phe
			245						250					255
Val	Tyr	Phe	Lys	Pro	Ser	Ser	Pro	Gly	Ser	Met	Glu	Trp	Ala	Ile
		260						265					270	
Ser	Ser	Val	Phe	Tyr	Thr	Asn	Val	Val	Pro	Met	Met	Asn	Pro	Ile
		275				280						285		
Tyr	Ser	Leu	Lys	Asn	Lys	Asp	Val	Lys	Ile	Ala	Leu	Arg	Lys	Leu
	290					295					300			
Ala	Arg	Trp	Lys	Ile										
305														

<210> 1631  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1631

Met	Ala	Pro	Ala	Asn	Val	Ser	Leu	Val	Thr	Glu	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Leu	Thr	Asn	Gln	Pro	Asp	Leu	Gln	Ile	Pro	Leu	Phe	Phe	Val	Phe	Leu
			20					25					30		
Ile	Met	Tyr	Ile	Val	Thr	Ala	Leu	Gly	Asn	Leu	Cys	Leu	Ile	Ile	Leu
		35				40					45				
Ile	Val	Leu	Asn	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Phe
	50				55						60				
Asn	Leu	Ser	Phe	Ile	Asp	Leu	Cys	Tyr	Ser	Thr	Val	Phe	Thr	Pro	Lys
65					70				75						80
Met	Leu	Met	Asn	Phe	Ile	Leu	Ser	Lys	Asn	Ala	Ile	Ser	Tyr	Met	Gly
			85						90					95	
Cys	Leu	Thr	Gln	Leu	Tyr	Phe	Phe	Cys	Phe	Phe	Val	Ile	Ser	Glu	Cys
			100					105					110		
Tyr	Val	Leu	Thr	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
		115				120						125			
Pro	Leu	Leu	Tyr	Thr	Val	Ala	Met	Ser	Pro	Lys	Leu	Cys	Leu	Asn	Leu
	130					135					140				
Met	Leu	Gly	Thr	Tyr	Ala	Met	Ala	Phe	Ser	Gly	Ala	Met	Ala	His	Thr
145					150					155					160
Gly	Cys	Met	Leu	Arg	Leu	Thr	Phe	Cys	Asp	Ala	Asn	Thr	Ile	Asn	His
			165						170					175	
Tyr	Phe	Cys	Asp	Ile	Leu	Pro	Val	Met	Gln	Leu	Ser	Cys	Thr	Ser	Thr
		180						185					190		
Tyr	Val	Asn	Glu	Leu	Val	Val	Phe	Ile	Val	Val	Gly	Ile	Asn	Ile	Ile
		195					200					205			
Val	Pro	Ser	Ile	Thr	Ile	Phe	Ile	Ser	Tyr	Gly	Phe	Ile	Leu	Ser	Ser
	210					215					220				



Ile	Phe	His	Ile	Lys	Ser	Asn	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Ile	Ile	Ala	Val	Cys	Leu	Phe	Phe	Gly	Ser	Gly	Ala
				245					250						255
Phe	Met	Tyr	Leu	Lys	Pro	Ser	Ser	Ser	Ser	Ser	Met	Asp	Gln	Gly	Lys
			260					265					270		
Thr	Ser	Ser	Val	Phe	Tyr	Thr	Asn	Val	Val	Pro	Met	Met	Asn	Pro	Leu
			275				280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Ile	Ala	Leu	Arg	Lys	Thr
	290					295					300				
Leu	Ser	Arg	Trp	Lys	Phe										
305					310										

<210> 1632  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1632

Met	Glu	Lys	Ala	Val	Leu	Ile	Asn	Glu	Thr	Ser	Val	Met	Ser	Phe	Arg
1				5					10					15	
Leu	Thr	Gly	Leu	Ser	Thr	Asn	Pro	Leu	Val	Gln	Met	Ala	Val	Phe	Phe
			20					25					30		
Ile	Phe	Leu	Ile	Phe	Tyr	Val	Leu	Thr	Leu	Val	Gly	Asn	Ile	Leu	Ile
		35					40					45			
Val	Ile	Thr	Ile	Ile	Tyr	Asp	Arg	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Ser	Asn	Leu	Ser	Phe	Ile	Asp	Val	Cys	His	Ser	Thr	Val	Thr
65					70				75						80
Val	Pro	Lys	Met	Leu	Ser	Asp	Thr	Phe	Ser	Glu	Glu	Lys	Leu	Ile	Ser
			85						90					95	
Phe	Asp	Ala	Cys	Val	Val	Gln	Met	Phe	Phe	Leu	His	Leu	Phe	Ala	Cys
			100					105					110		
Thr	Glu	Ile	Phe	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala
	115						120					125			
Ile	Cys	Lys	Pro	Leu	Gln	Tyr	Met	Thr	Ile	Met	Asn	Trp	Lys	Val	Cys
	130					135					140				
Met	Met	Leu	Ala	Ala	Ala	Leu	Trp	Thr	Gly	Gly	Thr	Ile	His	Ser	Ile
145					150					155					160
Ser	Leu	Thr	Ser	Leu	Thr	Ile	Lys	Leu	Pro	Tyr	Cys	Gly	Pro	Asp	Glu
			165						170					175	
Ile	Asp	Asn	Phe	Phe	Cys	Asp	Val	Pro	Gln	Val	Ile	Lys	Leu	Ala	Cys
		180						185					190		
Thr	Asp	Thr	His	Ile	Ile	Glu	Ile	Leu	Ile	Val	Ser	Asn	Ser	Gly	Leu
	195						200					205			
Ile	Ser	Val	Val	Cys	Phe	Val	Val	Leu	Val	Val	Ser	Tyr	Ala	Val	Ile
	210						215					220			
Leu	Val	Ser	Leu	Arg	Gln	Gln	Ile	Ser	Asp	Gly	Lys	Arg	Lys	Ala	Leu
225					230					235					240
Ser	Thr	Cys	Ala	Ala	His	Leu	Thr	Val	Val	Thr	Leu	Phe	Leu	Gly	His
			245						250					255	
Cys	Ile	Phe	Ile	Tyr	Ser	Arg	Pro	Ser	Thr	Ser	Leu	Pro	Glu	Asp	Lys
			260					265					270		
Val	Val	Ser	Val	Phe	Phe	Thr	Ala	Val	Thr	Pro	Leu	Leu	Asn	Pro	Ile
		275					280					285			
Ile	Tyr	Thr	Leu	Arg	Asn	Glu	Asp	Met	Lys	Ser	Ala	Leu	Asn	Lys	Leu

290		295		300
Ile Lys Arg Arg Glu Lys				
305		310		

<210> 1633  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1633

Met Gly Ala Leu Asn Gln Thr Arg Val Thr Glu Phe Ile Phe Leu Gly																			
1				5				10										15	
Leu Thr Asp Asn Trp Val Leu Glu Ile Leu Phe Phe Val Pro Phe Thr																			
			20					25										30	
Val Thr Tyr Met Leu Thr Leu Leu Gly Asn Phe Leu Ile Val Val Thr																			
			35					40										45	
Ile Val Phe Thr Pro Arg Leu His Asn Pro Met Tyr Phe Phe Leu Ser																			
			50					55										60	
Asn Leu Ser Phe Ile Asp Ile Cys His Ser Ser Val Thr Val Pro Lys																			
65								70										75	
Met Leu Glu Gly Leu Leu Glu Arg Lys Thr Ile Ser Phe Asp Asn																			
								85										90	
Cys Ile Ala Gln Leu Phe Phe Leu His Leu Phe Ala Cys Ser Glu Ile																			
			100															105	
Phe Leu Leu Thr Ile Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ile																			
			115															120	
Pro Leu His Tyr Ser Asn Val Met Asn Met Lys Val Cys Val Gln Leu																			
								135										140	
Val Phe Ala Leu Trp Leu Gly Gly Thr Ile His Ser Leu Val Gln Thr																			
145								150										155	
Phe Leu Thr Ile Arg Leu Pro Tyr Cys Gly Pro Asn Ile Ile Asp Ser																			
																		165	
Tyr Phe Cys Asp Val Pro Pro Val Ile Lys Leu Ala Cys Thr Asp Thr																			
			180															185	
Tyr Leu Thr Gly Ile Leu Ile Val Ser Asn Ser Gly Thr Ile Ser Leu																			
			195															200	
Val Cys Phe Leu Ala Leu Val Thr Ser Tyr Thr Val Ile Leu Phe Ser																			
			210															215	
Leu Arg Lys Lys Ser Ala Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys																			
225																		230	
Ser Ala His Phe Met Val Val Thr Leu Phe Phe Gly Pro Cys Ile Phe																			
																		245	
Leu Tyr Thr Arg Pro Asp Ser Ser Phe Ser Ile Asp Lys Val Val Ser																			
			260															265	
Val Phe Tyr Thr Val Val Thr Pro Leu Leu Asn Pro Leu Ile Tyr Thr																			
			275															280	
Leu Arg Asn Glu Glu Val Lys Thr Ala Met Lys His Leu Arg Gln Arg																			
			290															300	
Arg Ile Cys Ser																			
305																			

<210> 1634  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1634

Met	Ser	Gln	Lys	Arg	Met	Ala	Pro	Arg	Asn	Ser	Ser	Ser	Val	Thr	Glu
1				5					10					15	
Phe	Ile	Leu	Val	Gly	Phe	Ser	Asn	Gln	Pro	Ala	Leu	Gln	Leu	Pro	Leu
			20					25					30		
Phe	Phe	Val	Phe	Leu	Gly	Ile	Tyr	Val	Leu	Thr	Val	Ile	Gly	Asn	Leu
		35					40					45			
Gly	Leu	Ile	Thr	Leu	Ile	Gly	Leu	Asn	Ser	Ser	Leu	His	Thr	Pro	Met
	50					55					60				
Tyr	Phe	Phe	Leu	Phe	Asn	Leu	Ser	Phe	Ile	Asp	Phe	Cys	Tyr	Ser	Cys
65					70					75					80
Val	Phe	Thr	Pro	Lys	Met	Leu	Ser	Asp	Phe	Val	Ser	Glu	Asn	Ile	Ile
				85					90					95	
Ser	Tyr	Met	Gly	Cys	Met	Thr	Gln	Leu	Phe	Phe	Phe	Cys	Phe	Phe	Val
			100					105					110		
Asn	Ser	Glu	Cys	Tyr	Val	Leu	Val	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val
		115						120				125			
Ala	Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Thr	Val	Thr	Met	Ser	Pro	Gln	Val
	130					135					140				
Cys	Thr	Leu	Leu	Met	Phe	Cys	Ser	Tyr	Val	Ile	Gly	Phe	Ala	Gly	Ala
145					150					155					160
Met	Ala	His	Thr	Gly	Ser	Met	Leu	Thr	Leu	Thr	Phe	Cys	Asp	Ser	Asn
				165					170					175	
Met	Ile	His	His	Tyr	Leu	Cys	Glu	Val	Leu	Pro	Leu	Leu	Gln	Leu	Ser
			180					185					190		
Cys	Thr	Ser	Thr	Tyr	Ala	Asn	Glu	Leu	Val	Phe	Phe	Ile	Val	Val	Gly
	195						200					205			
Val	Val	Ile	Thr	Ala	Ser	Ser	Ile	Ser	Ile	Phe	Ile	Ser	Tyr	Ala	Leu
	210					215					220				
Ile	Leu	Ser	Asn	Ile	Leu	Lys	Ile	Pro	Ser	Ala	Glu	Gly	Arg	Ser	Lys
225					230					235					240
Ala	Phe	Gly	Thr	Cys	Gly	Ser	His	Val	Val	Ala	Val	Ala	Leu	Phe	Phe
				245					250					255	
Gly	Ser	Gly	Ala	Phe	Thr	Tyr	Leu	Thr	Thr	Ser	Phe	Pro	Gly	Ser	Met
			260					265					270		
Glu	Glu	Gly	Arg	Phe	Ala	Ser	Val	Phe	Tyr	Thr	Asn	Val	Val	Pro	Met
	275					280						285			
Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Leu	Ala
	290					295					300				
Leu	Asn	Lys	Thr	Leu	Lys	Arg	Val	Leu	Phe						
305					310										

<210> 1635

<211> 316

<212> PRT

<213> Mus musculus

<400> 1635

Met	Ala	Lys	Asn	Asn	Ile	Thr	Thr	Val	Thr	Glu	Phe	Ile	Leu	Ile	Gly
1				5					10					15	
Phe	Asn	Asp	His	Pro	Lys	Trp	Glu	Ile	Pro	Leu	Leu	Leu	Val	Phe	Leu
			20					25					30		
Ser	Phe	Tyr	Leu	Val	Thr	Met	Leu	Gly	Asn	Leu	Gly	Met	Val	Ile	Leu
		35					40					45			
Ile	His	Val	Asp	Val	Gln	Leu	His	Ile	Pro	Met	Tyr	Phe	Phe	Leu	Ser

50		55		60											
His	Leu	Ser	Val	Leu	Asp	Ala	Cys	Tyr	Thr	Ser	Val	Ile	Thr	Pro	Gln
65					70					75					80
Ile	Leu	Ala	Thr	Leu	Ala	Thr	Gly	Lys	Thr	Val	Ile	Ser	Tyr	Arg	Cys
				85						90					95
Cys	Ala	Ala	Gln	Phe	Phe	Phe	Phe	Thr	Ile	Cys	Ala	Ala	Thr	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Ser	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Ser	Asn
		115					120					125			
Pro	Leu	Leu	Tyr	Thr	Val	Ala	Met	Gly	Pro	Arg	Lys	Cys	Trp	Ser	Leu
	130					135					140				
Val	Val	Gly	Ala	Tyr	Ile	Cys	Gly	Val	Cys	Gly	Ala	Ile	Leu	Arg	Thr
145					150				155						160
Thr	Cys	Thr	Phe	Ser	Leu	Ser	Phe	Cys	Glu	Asn	Asn	Gln	Ile	Asn	Phe
				165					170						175
Phe	Phe	Cys	Asp	Leu	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr
			180					185					190		
Thr	Asn	Ile	Glu	Ile	Ile	Ile	Val	Phe	Phe	Gly	Asn	Phe	Val	Ile	Leu
	195						200					205			
Ala	Asn	Ala	Leu	Val	Ile	Leu	Ile	Ser	Tyr	Leu	Leu	Ile	Ile	Lys	Ala
	210					215					220				
Val	Met	Arg	Met	Lys	Ser	Ser	Gly	Arg	Arg	Ala	Lys	Thr	Phe	Ser	Thr
225				230						235					240
Cys	Val	Ser	His	Leu	Thr	Ala	Val	Ala	Leu	Leu	Phe	Gly	Thr	Leu	Ile
			245						250					255	
Phe	Met	Tyr	Ile	Arg	Ser	Gly	Ser	Lys	Lys	Ser	Leu	Asp	Glu	Asp	Lys
		260					265					270			
Val	Val	Ser	Val	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
	275					280						285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Ala	Ala	Phe	Lys	Lys	Val
	290				295					300					
Thr	Gly	Lys	Cys	Gln	Val	Ser	Gln	Cys	Thr	Gln	His				
305				310						315					

<210> 1636  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1636

Met	Asp	Asn	Asn	Asn	Leu	Thr	Thr	Val	Thr	Glu	Phe	Ile	Leu	Val	Gly
1				5					10				15		
Phe	Thr	Asp	His	Pro	Glu	Trp	Glu	Val	Pro	Leu	Phe	Leu	Val	Phe	Leu
			20				25					30			
Cys	Phe	Tyr	Leu	Val	Thr	Ile	Leu	Gly	Asn	Leu	Gly	Met	Val	Ile	Leu
	35					40					45				
Ile	Gln	Met	Asp	Val	Gln	Leu	Gln	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50				55					60					
His	Leu	Ser	Val	Leu	Asp	Ala	Cys	Tyr	Thr	Ser	Val	Ile	Thr	Pro	Gln
65				70					75					80	
Ile	Leu	Ala	Met	Leu	Ala	Thr	Gly	Lys	Thr	Val	Ile	Ser	Tyr	Asn	His
			85					90						95	
Cys	Ala	Ala	Gln	Phe	Phe	Phe	Phe	Thr	Phe	Cys	Ala	Ser	Thr	Glu	Cys
		100					105					110			
Phe	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Ser	Asn
	115					120						125			

Pro	Leu	Leu	Tyr	Thr	Val	Ala	Met	Ser	Pro	Lys	Lys	Cys	Trp	Ser	Leu
130						135					140				
Val	Leu	Val	Ala	Tyr	Val	Cys	Gly	Leu	Ser	Gly	Ser	Ile	Gln	Arg	Thr
145					150					155					160
Thr	Cys	Thr	Phe	Ser	Leu	Ser	Phe	Cys	Glu	Asp	Asn	Lys	Ile	Asn	Phe
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr
			180					185					190		
Thr	Asn	Ala	Glu	Ile	Ile	Ile	Val	Leu	Phe	Gly	Asn	Phe	Val	Ile	Leu
	195						200					205			
Val	Asn	Ala	Leu	Val	Ile	Leu	Thr	Ser	Tyr	Leu	Leu	Ile	Ile	Lys	Thr
	210					215					220				
Val	Met	Arg	Ile	Lys	Ser	Ser	Gly	Gly	Arg	Gly	Lys	Thr	Phe	Ser	Thr
225					230					235					240
Cys	Val	Ser	His	Leu	Thr	Ala	Val	Ala	Leu	Phe	Phe	Gly	Thr	Leu	Thr
			245						250					255	
Phe	Met	Tyr	Ile	Arg	Ser	Gly	Ser	Gly	Lys	Ser	Pro	Glu	Glu	Asp	Lys
			260					265						270	
Val	Val	Ser	Val	Phe	Tyr	Thr	Val	Ile	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Ala	Gly	Phe	Arg	Lys	Leu
	290					295					300				
Thr	Ser	Arg	Leu	Gln	Val	Ser	Gln	Ser	Val						
305					310										

<210> 1637  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1637

Met	Lys	Asn	Gln	Ser	Gly	Glu	Leu	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Asp	Asp	Pro	Gln	Leu	Gln	Ile	Leu	Ile	Phe	Leu	Phe	Leu	Phe	Phe	Asn
			20					25					30		
Tyr	Ile	Leu	Ser	Met	Met	Gly	Asn	Leu	Thr	Ile	Ile	Leu	Leu	Thr	Leu
	35					40						45			
Leu	Asp	Pro	His	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe
	50					55					60				
Ser	Phe	Ile	Glu	Ile	Ala	Phe	Thr	Thr	Val	Cys	Ile	Pro	Arg	Phe	Leu
65					70					75					80
Ile	Ser	Ile	Leu	Ser	Gly	Asp	Arg	Thr	Ile	Ser	Tyr	Asn	Ala	Cys	Ala
				85					90					95	
Ala	Gln	Leu	Phe	Phe	Val	Phe	Leu	Leu	Gly	Ser	Thr	Glu	Phe	Tyr	Leu
		100						105					110		
Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg	Pro	Leu
		115					120					125			
His	Tyr	Pro	Ile	Ile	Met	Asn	Ser	Lys	Val	Cys	His	Leu	Leu	Val	Leu
	130					135					140				
Ser	Ser	Trp	Val	Thr	Gly	Phe	Leu	Ile	Ile	Phe	Pro	Pro	Leu	Leu	Leu
145					150					155					160
Gly	Leu	Lys	Leu	Asp	Phe	Cys	Thr	Ser	Gly	Ala	Met	Asp	His	Phe	Leu
			165						170					175	
Cys	Asp	Pro	Ser	Pro	Val	Leu	Gln	Leu	Ser	Cys	Thr	Asp	Thr	Gln	Leu
		180						185				190			
Ile	Glu	Leu	Met	Thr	Phe	Val	Leu	Ala	Ile	Met	Thr	Leu	Ile	Ile	Thr

195	200	205
Leu Ile Leu Val Ile Leu Ser Tyr Thr Leu Ile Ile Lys Thr Ile Leu		
210	215	220
Lys Phe Pro Ser Ala Gln Gln Arg Arg Lys Ala Phe Ser Thr Cys Ser		
225	230	235
Ser His Met Val Val Val Ser Ile Thr Tyr Gly Ser Cys Ile Phe Met		
245	250	255
Tyr Val Lys Thr Ser Ala Lys Glu Arg Val Thr Leu Asn Lys Gly Val		
260	265	270
Ala Val Leu Asn Thr Ser Val Ala Pro Leu Leu Asn Pro Phe Ile Tyr		
275	280	285
Thr Leu Arg Asn Gln Gln Val Lys Asp Ala Phe Lys His Met Leu His		
290	295	300
Arg Phe Cys Thr Lys Gln		
305	310	

<210> 1638  
 <211> 306  
 <212> PRT  
 <213> Mus musculus

<400> 1638

Met Ser Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr Gln Asp Pro	
1 5 10 15	
Asp Leu Gln Lys Leu Leu Phe Ile Val Cys Leu Ile Ile Tyr Leu Ile	
20 25 30	
Thr Leu Ala Gly Asn Met Leu Ile Ser Val Thr Ile Phe Ile Ser Pro	
35 40 45	
Ala Leu Ala Thr Pro Met Tyr Phe Phe Leu Ser Tyr Leu Ser Ile Ile	
50 55 60	
Asp Gly Phe Tyr Ser Ser Ser Ile Ala Pro Lys Met Ile Tyr Asp Leu	
65 70 75 80	
Ile Ser Glu Lys Ser Thr Ile Ser Phe Asn Gly Cys Met Thr Gln Leu	
85 90 95	
Phe Ala Glu His Phe Phe Ala Ala Asp Glu Ile Ile Leu Leu Ile Ala	
100 105 110	
Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu His Tyr Met	
115 120 125	
Thr Ile Met Ser Gln Pro Leu Cys Val Phe Leu Val Gly Ala Ala Val	
130 135 140	
Ile Leu Gly Phe Ile His Gly Ala Ile Gln Thr Leu Phe Met Ala Gln	
145 150 155 160	
Leu Pro Phe Cys Gly Pro Asn Thr Ile Asn His Phe Met Cys Asp Leu	
165 170 175	
Ile Pro Leu Leu Glu Leu Ala Cys Thr Asp Thr His Thr Leu Gly Pro	
180 185 190	
Leu Ile Ala Ala Asn Ser Gly Ser Leu Cys Leu Leu Thr Phe Ser Met	
195 200 205	
Leu Val Ala Ser Tyr Val Val Ile Leu Arg Ser Leu Arg Asn His Ser	
210 215 220	
Ala Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Ala Ser His Val Thr	
225 230 235 240	
Val Val Val Leu Phe Phe Val Pro Cys Ser Tyr Leu Tyr Leu Arg Pro	
245 250 255	
Met Thr Ser Phe Pro Thr Asp Lys Ala Val Thr Val Phe Cys Thr Leu	
260 265 270	

Val Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Glu Glu  
 275 280 285  
 Val Lys Arg Val Met Lys Lys Leu Trp Gly Arg Met Arg Lys Ala Gly  
 290 295 300  
 Asp Met  
 305

<210> 1639  
 <211> 305  
 <212> PRT  
 <213> Mus musculus

<400> 1639  
 Met Val His Glu Asn Asn Val Thr Glu Leu Ile Phe Thr Gly Leu Phe  
 1 5 10 15  
 Gln Asp Pro Glu Val Gln Lys Val Cys Phe Val Leu Phe Leu Pro Val  
 20 25 30  
 Tyr Leu Ala Thr Leu Leu Gly Asn Gly Leu Ile Phe Val Thr Val Ser  
 35 40 45  
 Ile Ser Lys Thr Leu His Ser Pro Met Tyr Phe Phe Leu Ser Ser Leu  
 50 55 60  
 Ser Leu Val Glu Ile Cys Tyr Ser Ser Thr Val Ala Pro Lys Phe Ile  
 65 70 75 80  
 Thr Asp Leu Leu Ala Lys Val Lys Thr Ile Ser Leu Lys Gly Cys Leu  
 85 90 95  
 Thr Gln Ile Phe Phe Phe His Phe Phe Gly Val Val Glu Ile Ile Leu  
 100 105 110  
 Leu Val Met Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu  
 115 120 125  
 His Tyr Met Ile Ile Met Ser Arg Gln Val Cys His Met Leu Val Ala  
 130 135 140  
 Gly Ser Trp Leu Gly Gly Leu Ile His Ser Ile Ile Gln Ile Ile Ile  
 145 150 155 160  
 Thr Ile Pro Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Tyr Phe  
 165 170 175  
 Cys Asp Leu His Pro Leu Leu Lys Leu Ala Cys Ser Asp Thr Phe Met  
 180 185 190  
 Glu Arg Phe Ile Val Met Ala Asn Ser Gly Leu Phe Ser Ile Ile Ser  
 195 200 205  
 Leu Phe Ile Leu Val Ser Ser Tyr Ala Val Ile Leu Ile Ser Leu Arg  
 210 215 220  
 Lys Arg Ser Ala Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Ala Ser  
 225 230 235 240  
 His Ile Thr Val Val Ile Leu Tyr Phe Gly Pro Gly Ala Phe Ile Tyr  
 245 250 255  
 Met Arg Pro Ser Ser Ala Phe Thr Glu Asp Lys Leu Val Ser Val Phe  
 260 265 270  
 Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Ile Val Tyr Thr Leu Arg  
 275 280 285  
 Asn Thr Glu Met Lys Asn Ala Ile Arg Met Phe Trp Ser Gln Lys Asp  
 290 295 300  
 Lys  
 305

<210> 1640

<211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1640

Met	Gly	Glu	Arg	Asn	Asn	Val	Thr	Glu	Phe	Val	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Gln	Asp	Pro	Ala	Gly	Gln	Lys	Val	Leu	Phe	Val	Met	Phe	Leu	Leu	Ile
			20					25					30		
Tyr	Ile	Val	Thr	Met	Val	Gly	Asn	Leu	Leu	Ile	Val	Leu	Thr	Val	Ile
		35					40					45			
Ala	Ser	Pro	Ser	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Cys	Leu
	50					55					60				
Ser	Phe	Leu	Asp	Ile	Val	Tyr	Ser	Thr	Ser	Ile	Ser	Pro	Lys	Leu	Ile
65					70					75					80
Met	Asp	Leu	Leu	Cys	Asp	Glu	Lys	Ser	Ile	Ser	Phe	Thr	Ala	Cys	Met
				85					90					95	
Ser	Gln	Leu	Phe	Ile	Glu	His	Leu	Phe	Gly	Gly	Thr	Glu	Ile	Val	Ile
			100					105					110		
Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Leu	Thr	Ile	Met	Asn	Arg	Lys	Val	Cys	Ile	Ile	Leu	Leu	Gly
	130					135					140				
Phe	Ser	Trp	Val	Gly	Gly	Phe	Thr	His	Ser	Met	Ile	Gln	Ile	Leu	Phe
145				150						155					160
Val	Phe	Asn	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Ile	Ile	Asp	His	Phe	Met
				165					170					175	
Cys	Asp	Met	Ser	Pro	Leu	Leu	Gly	Leu	Val	Cys	Thr	Asp	Thr	Tyr	Phe
			180					185					190		
Ile	Gly	Leu	Thr	Leu	Ile	Ala	Lys	Gly	Gly	Ala	Met	Cys	Ile	Val	Val
	195						200					205			
Phe	Ile	Leu	Leu	Ile	Val	Ser	Tyr	Gly	Ile	Ile	Leu	Arg	Ser	Leu	Lys
	210					215					220				
Asn	Tyr	Ser	Gln	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Ser	Ser
225					230					235					240
His	Ile	Met	Val	Val	Thr	Leu	Phe	Phe	Val	Pro	Cys	Ile	Phe	Met	Tyr
				245					250					255	
Ala	Arg	Pro	Val	Tyr	Asn	Phe	Ser	Ser	Asp	Lys	Tyr	Ile	Thr	Val	Phe
			260					265					270		
Tyr	Thr	Val	Phe	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg
	275						280					285			
Asn	Ser	Glu	Met	Lys	Asn	Ser	Met	Gln	Lys	Leu	Trp	Cys	Thr	Leu	Leu
	290					295					300				
Thr	Met	Asp	Arg	Ile	Arg	Leu	Ser	Cys	Tyr						
305					310										

<210> 1641  
 <211> 307  
 <212> PRT  
 <213> Mus musculus

<400> 1641

Met	Gly	Gln	Asn	Asn	Asn	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Gln	Asp	Pro	Ala	Gly	Gln	Lys	Val	Leu	Phe	Val	Met	Phe	Leu	Leu	Ile
			20					25					30		



Tyr Ile Val Lys Ile Val Gly Asn Leu Leu Ile Val Gly Thr Val Ile  
           35                  40                  45  
 Ala Ser Pro Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Phe Leu  
       50                  55                  60  
 Ser Leu Met Asp Ala Val Tyr Ser Thr Ala Ile Leu Pro Lys Leu Leu  
 65                  70                  75                  80  
 Thr Asp Leu Leu Cys Asp Lys Lys Thr Ile Ser Phe Thr Ala Cys Leu  
                   85                  90                  95  
 Val Gln Leu Phe Val Glu His Leu Phe Gly Gly Ser Glu Val Phe Ile  
                   100                  105                  110  
 Leu Val Val Met Ala Tyr Asp His Tyr Val Ala Ile Cys Lys Pro Leu  
                   115                  120                  125  
 His Tyr Leu Thr Ile Met Lys Arg Gln Val Cys Ile Leu Leu Val Val  
       130                  135                  140  
 Val Ser Trp Ala Gly Gly Phe Val His Ala Leu Leu Gln Ala Ile Ser  
 145                  150                  155                  160  
 Val Tyr Leu Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Ala  
                   165                  170                  175  
 Cys Asp Ile Tyr Pro Leu Leu Gly Leu Ala Cys Thr Asp Thr Tyr Phe  
                   180                  185                  190  
 Leu Gly Leu Thr Val Val Ser Ser Tyr Gly Ala Met Ser Ile Val Ala  
       195                  200                  205  
 Phe Ile Leu Leu Leu Val Ser Tyr Gly Ile Ile Leu Asn Ser Leu Lys  
       210                  215                  220  
 Thr His Ser Gln Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Ser Ser  
 225                  230                  235                  240  
 His Ile Met Val Val Leu Phe Phe Val Pro Cys Ile Phe Met Tyr  
                   245                  250                  255  
 Val Arg Pro Val Ser Asn Phe Pro Ile Asp Lys Tyr Ile Thr Val Phe  
                   260                  265                  270  
 Tyr Thr Val Phe Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg  
                   275                  280                  285  
 Asn Met Glu Ile Lys Asn Cys Met Ala Lys Leu Trp Ser Lys Met Phe  
       290                  295                  300  
 Thr Lys Ala  
 305

<210> 1642  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1642  
 Met Gly Gln Arg Asn Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr  
   1                  5                  10                  15  
 Gln Asp Pro Ala Gly Gln Lys Ala Leu Phe Val Met Phe Leu Leu Ile  
                   20                  25                  30  
 Tyr Ile Val Thr Met Val Gly Asn Leu Leu Ile Val Ala Thr Val Ile  
       35                  40                  45  
 Ala Ser Pro Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Tyr Leu  
       50                  55                  60  
 Ser Ile Met Asp Ala Val Tyr Ser Thr Ser Thr Ser Pro Lys Leu Ile  
 65                  70                  75                  80  
 Met Asp Leu Leu Ser Asp Lys Lys Thr Ile Ser Phe Ser Ala Cys Met  
                   85                  90                  95  
 Gly Gln Leu Phe Ile Glu His Leu Phe Gly Gly Ala Glu Val Phe Leu



Cys	Asp	Leu	Phe	Pro	Leu	Leu	Gln	Leu	Ala	Cys	Met	Asp	Thr	His	Ile	
		180						185				190				
Leu	Ala	Leu	Leu	Val	Ile	Leu	Asn	Ser	Gly	Val	Met	Cys	Val	Thr	Ile	
		195					200					205				
Phe	Leu	Ile	Leu	Ile	Thr	Ser	Tyr	Val	Val	Ile	Leu	Cys	Ser	Leu	Lys	
	210					215					220					
Ser	Ser	Ser	Ser	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Ser	Ser	
225					230					235					240	
His	Phe	Thr	Val	Val	Val	Leu	Phe	Phe	Val	Pro	Cys	Ile	Ile	Leu	Tyr	
			245						250					255		
Met	Arg	Pro	Val	Val	Thr	Tyr	Pro	Ile	Asp	Asn	Ala	Met	Ala	Leu	Cys	
		260						265					270			
Ala	Thr	Ile	Phe	Glu	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	
		275					280					285				
Asn	Ala	Glu	Val	Lys	His	Ala	Leu	Arg	Lys	Leu	Trp	Met	Lys	Arg	Gly	
	290					295					300					
Pro																
305																

<210> 1644  
 <211> 307  
 <212> PRT  
 <213> Mus musculus

<400> 1644

Met	Gly	Glu	Lys	Ser	Asn	Ile	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr	
1				5					10					15		
Gln	Asp	Pro	Ala	Gly	Arg	Lys	Ile	Leu	Phe	Phe	Ile	Phe	Leu	Leu	Ile	
		20						25				30				
Tyr	Ile	Val	Thr	Met	Val	Gly	Asn	Leu	Leu	Ile	Val	Val	Thr	Val	Ile	
	35					40					45					
Thr	Ser	Pro	Ser	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Ser	Leu	
	50				55					60						
Ser	Leu	Leu	Asp	Ala	Leu	Phe	Ser	Thr	Ala	Ile	Ser	Pro	Lys	Leu	Ile	
65				70					75					80		
Val	Asp	Leu	Phe	Cys	Asp	Gln	Lys	Thr	Ile	Ser	Phe	Thr	Ala	Cys	Ile	
			85					90					95			
Ser	Gln	Leu	Phe	Ile	Glu	His	Leu	Phe	Gly	Gly	Val	Asp	Ile	Val	Ile	
		100					105					110				
Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	
	115					120					125					
His	Tyr	Leu	Ala	Ile	Met	Asn	Arg	Arg	Val	Cys	Ile	Thr	Leu	Leu	Ile	
	130				135					140						
Ile	Ala	Trp	Thr	Gly	Gly	Phe	Thr	His	Ser	Leu	Ile	Gln	Ile	Val	Phe	
145				150					155					160		
Val	Tyr	Asn	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Phe	Ile	
			165					170					175			
Cys	Asp	Met	Ser	Pro	Leu	Leu	Val	Leu	Ala	Cys	Thr	Asp	Thr	Tyr	Phe	
		180						185				190				
Ile	Gly	Leu	Thr	Val	Ile	Ala	Asn	Gly	Gly	Ala	Met	Cys	Ile	Val	Ile	
	195					200					205					
Phe	Thr	Leu	Leu	Leu	Gly	Ser	Tyr	Gly	Ile	Ile	Leu	Lys	Ser	Leu	Lys	
	210				215						220					
Thr	His	Ser	Gln	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Ser	Ser	
225				230						235				240		
His	Ile	Leu	Val	Val	Ile	Leu	Phe	Phe	Val	Pro	Cys	Ile	Phe	Met	Tyr	

245							250					255			
Ala	Arg	Pro	Val	Tyr	Asn	Phe	Pro	Ile	Asp	Lys	Cys	Ile	Thr	Val	Phe
260							265					270			
Tyr	Thr	Ile	Ile	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg
275							280					285			
Asn	Ser	Glu	Met	Lys	Thr	Cys	Met	Lys	Lys	Leu	Trp	Cys	Lys	Ile	Leu
290							295					300			
Pro	Ala	Asp													
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Leu	Thr	Asp	Gln 20	Pro	Asp	Leu	Gln	Val 25	Pro	Leu	Phe	Leu 30	Val	Phe	Leu
Leu	Met	Tyr 35	Met	Ile	Thr	Ala	Leu 40	Gly	Asn	Leu	Thr 45	Leu	Ile	Ile	Leu
Ile	Val 50	Leu	Asn	Ser	His 55	Leu	His	Thr	Pro	Met	Tyr 60	Phe	Phe	Leu	Phe
Asn 65	Leu	Ser	Phe	Val	Asp 70	Phe	Cys	Tyr	Ser 75	Val	Ile	Ile	Pro	Lys 80	
Met	Leu	Met	Asn 85	Phe	Ile	Leu	Lys	Lys 90	Asn	Phe	Ile	Ser	Tyr 95	Val	Gly
Cys	Met	Thr	Gln 100	Phe	Tyr	Leu	Phe	Gly 105	Phe	Cys	Val	Ile	Leu 110	Glu	Cys
Tyr	Ile	Leu	Thr 115	Ser	Met	Ala	Tyr	Asp 120	Arg	Tyr	Val	Ala 125	Ile	Cys	Asn
Pro	Leu 130	Leu	Tyr	Asn	Ile	Val	Met	Ser 135	Pro	Lys	Leu 140	Cys	Ser	Tyr	Leu
Met 145	Leu	Gly	Ser	Tyr	Leu 150	Met	Gly	Phe	Ser	Gly 155	Ala	Met	Ile	His	Thr 160
Gly	Cys	Val	Leu	Arg	Leu	Ser	Phe	Cys	Asp 170	Gly	Asn	Ile	Ile	Asn	His 175
Tyr	Phe	Cys	Asp 180	Leu	Leu	Pro	Leu	Leu 185	Gln	Leu	Ser	Cys	Thr 190	Ser	Thr
Tyr	Val	Asn 195	Glu	Ile	Glu	Val	Leu	Ile 200	Val	Ala	Gly	Lys 205	Asp	Ile	Ile
Val	Pro 210	Thr	Val	Ile	Ile	Phe	Ile	Ser 215	Tyr	Gly	Phe	Ile	Leu	Ser	Ser
Ile 225	Phe	Gln	Met	Lys	Ser	Thr	Lys	Gly	Met	Ser	Lys 235	Ala	Phe	Ser	Thr 240
Cys	Ser	Ser	His	Ile	Ile	Ala	Val	Ser	Leu	Phe	Phe	Gly	Ser	Gly	Ala 255
Phe	Met	Tyr	Leu 260	Lys	Pro	Asn	Ser	Thr 265	Gly	Thr	Met	Asn	Asn	Gly	Lys
Ile	Pro	Ser	Ile 275	Ile	Tyr	Thr	Ile	Leu	Ile	Pro	Met	Met	Asn	Pro	Leu
Ile	Tyr 290	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Val	Ala	Leu	Arg	Lys	Thr
Leu 305	Arg	Lys	Lys	Ile	Leu						300				
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 <212> PRT  
 <213> Mus musculus

<400> 1646  
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 Leu Thr Asp Gln Pro Asp Leu Gln Met Pro Leu Phe Leu Ile Phe Leu  
 20 25 30  
 Ile Ile Tyr Leu Ile Thr Ala Phe Gly Asn Leu Thr Leu Ile Ile Leu  
 35 40 45  
 Ile Val Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Phe  
 50 55 60  
 Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Ser Leu Ile Thr Pro Lys  
 65 70 75 80  
 Met Leu Met Asn Phe Val Leu Glu Lys Asn Ile Ile Ser Tyr Met Gly  
 85 90 95  
 Cys Met Thr Gln Phe Tyr Phe Phe Gly Phe Phe Ala Ile Ser Glu Cys  
 100 105 110  
 Tyr Val Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn  
 115 120 125  
 Pro Leu Leu Tyr Ser Val Ala Met Ser Pro Lys Met Cys Ser Tyr Leu  
 130 135 140  
 Ile Leu Gly Ser Tyr Phe Met Gly Phe Ser Gly Ala Met Ile His Thr  
 145 150 155 160  
 Gly Cys Val Met Arg Leu Thr Phe Cys Asp Gly Asn Thr Ile Asn His  
 165 170 175  
 Tyr Phe Cys Asp Leu Leu Pro Leu Leu Gln Leu Ser Cys Thr Ser Thr  
 180 185 190  
 Tyr Val Asn Glu Ile Glu Leu Phe Ile Val Thr Gly Lys Asp Ile Ile  
 195 200 205  
 Val Pro Thr Val Ile Ile Phe Ala Ser Tyr Gly Phe Ile Leu Ser Asn  
 210 215 220  
 Ile Leu Lys Ile Arg Ser Thr Ser Gly Arg Ser Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ser Ser His Ile Ile Ala Val Ser Met Phe Phe Gly Ser Ser Ala  
 245 250 255  
 Phe Met Tyr Leu Lys Pro Ser Ser Ala Val Ser Met Asn Glu Ala Lys  
 260 265 270  
 Phe Ser Ser Ile Phe Tyr Ser Ile Val Val Pro Met Met Asn Pro Leu  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Val Gly Leu Lys Lys Thr  
 290 295 300  
 Leu Ser Arg Met Phe Ser His Asn Leu Ile Ser Leu  
 305 310 315

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 <212> PRT  
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<400> 1647  
 Met Gly Ser Glu Asn Gly Ser Ser Val Thr Glu Phe Ile Leu Val Gly

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Leu	Thr	Lys	Asp	Pro	Asp	Leu	Gln	Cys	Pro	Leu	Phe	Val	Leu	Phe	Leu	
			20					25					30			
Val	Met	Tyr	Val	Leu	Thr	Val	Leu	Gly	Asn	Leu	Ser	Leu	Ile	Thr	Leu	
		35					40					45				
Ile	Val	Leu	Asn	Ser	His	Leu	Pro	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Phe	
	50					55					60					
Asn	Leu	Ser	Leu	Val	Asp	Phe	Trp	Tyr	Ser	Ser	Val	Phe	Thr	Pro	Lys	
65					70					75					80	
Met	Leu	Met	Ser	Phe	Ile	Ser	Glu	Lys	Asn	Ile	Ile	Ser	Tyr	Arg	Gly	
				85					90					95		
Cys	Met	Ala	Gln	Leu	Phe	Phe	Phe	Ser	Phe	Phe	Cys	Ile	Ser	Glu	Cys	
			100					105					110			
Tyr	Val	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	
		115					120					125				
Pro	Leu	Leu	Tyr	Asn	Ile	Val	Met	Ser	Pro	Lys	Leu	Cys	Leu	Asn	Leu	
		130				135					140					
Ile	Leu	Gly	Ser	Tyr	Ile	Met	Ala	Phe	Ser	Gly	Ala	Met	Ala	His	Thr	
145					150					155					160	
Gly	Cys	Met	Leu	Arg	Leu	Thr	Phe	Cys	Asp	Ala	Asn	Thr	Ile	Asn	His	
				165					170					175		
Tyr	Phe	Cys	Asp	Ile	His	Pro	Leu	Leu	Gln	Leu	Ser	Cys	Thr	Ser	Ile	
			180					185					190			
Tyr	Val	Asn	Glu	Leu	Glu	Val	Phe	Val	Val	Ile	Gly	Ile	Asn	Ile	Ile	
		195					200					205				
Val	Pro	Thr	Ile	Thr	Ile	Phe	Ile	Ser	Tyr	Gly	Phe	Ile	Leu	Ser	Ser	
		210				215					220					
Ile	Phe	His	Ile	Ser	Ser	Lys	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	
225					230					235					240	
Cys	Ser	Ser	His	Ile	Ile	Ala	Val	Ser	Leu	Phe	Phe	Gly	Ser	Gly	Ala	
				245					250					255		
Phe	Met	Tyr	Leu	Lys	Pro	Ser	Ser	Ala	Glu	Ser	Met	Asn	Glu	Ser	Lys	
			260					265					270			
Val	Ser	Ser	Val	Phe	Tyr	Thr	Asn	Thr	Val	Pro	Leu	Leu	Asn	Pro	Leu	
			275				280					285				
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Ile	Ala	Leu	Ile	Lys	Thr	
	290					295					300					
Leu	Ser	Lys	Arg	Lys	Cys											
305					310											

<210> 1648  
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 <212> PRT  
 <213> Mus musculus

<400> 1648

Met	Asp	Ser	Val	Asn	Ile	Ser	Leu	Val	Thr	Glu	Phe	Ile	Leu	Val	Gly	
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Leu	Thr	Asp	Lys	Pro	Tyr	Leu	Gln	Ile	Pro	Leu	Phe	Phe	Ile	Phe	Leu	
		20						25					30			
Ala	Met	Tyr	Leu	Val	Thr	Ala	Leu	Gly	Asn	Leu	Ser	Leu	Ile	Ile	Leu	
		35					40					45				
Thr	Val	Leu	Asn	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Phe	
	50					55					60					
Asn	Leu	Ser	Phe	Val	Asp	Phe	Cys	Tyr	Ser	Ser	Val	Phe	Thr	Pro	Gln	
65					70					75					80	

Met	Leu	Met	Asn	Phe	Ile	Thr	Arg	Lys	Asn	Thr	Ile	Ser	Tyr	Met	Glu
			85						90					95	
Cys	Met	Ser	Gln	Leu	Tyr	Phe	Phe	Cys	Phe	Phe	Val	Ile	Ser	Glu	Cys
			100					105					110		
Tyr	Val	Leu	Thr	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	Leu	Tyr	Asn	Leu	Val	Met	Ser	Ser	Lys	Leu	Cys	Leu	Asn	Leu
	130					135					140				
Met	Leu	Val	Ser	Tyr	Phe	Ile	Ala	Phe	Ser	Glu	Ser	Val	Ala	His	Thr
145					150					155					160
Val	Cys	Ile	Met	Arg	Leu	Asn	Phe	Cys	Asp	Ala	Asn	Lys	Ile	Asn	His
			165						170					175	
Tyr	Phe	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Gln	Leu	Ser	Cys	Thr	Thr	Thr
			180					185					190		
Tyr	Ile	Asn	Lys	Leu	Val	Val	Phe	Val	Ala	Ser	Ser	Ile	Asn	Ile	Ile
	195						200					205			
Val	Pro	Ile	Ser	Thr	Ile	Phe	Ile	Ser	Tyr	Gly	Phe	Ile	Leu	Ser	Ser
	210					215					220				
Ile	Phe	His	Ile	His	Ser	Ser	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Ile	Ile	Ala	Ala	Phe	Leu	Phe	Phe	Gly	Ser	Gly	Ala
			245					250						255	
Phe	Met	Tyr	Phe	Gln	Pro	Ser	Ser	Ala	Glu	Ser	Met	Asp	Glu	Gly	Lys
		260						265				270			
Ile	Ser	Ser	Val	Phe	Tyr	Thr	Asn	Val	Ile	Pro	Met	Met	Asn	Pro	Leu
		275					280					285			
Leu	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Val	Ala	Leu	Arg	Lys	Thr
	290					295					300				
Leu	Ser	Lys	Arg	Asn	Ile										
305					310										

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 <212> PRT  
 <213> Mus musculus

<400> 1649

Met	Gly	Thr	Gly	Asn	His	Ser	Ala	Ala	Val	Val	Phe	Val	Leu	Val	Gly
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		20						25					30		
Gly	Ile	Tyr	Val	Val	Thr	Ala	Val	Gly	Asn	Leu	Gly	Met	Ile	Leu	Leu
	35					40					45				
Ile	Thr	Val	Ser	Pro	Leu	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Ser
	50					55				60					
Ser	Leu	Ser	Cys	Val	Asp	Leu	Cys	Tyr	Ser	Thr	Val	Ile	Thr	Pro	Lys
65					70					75					80
Met	Leu	Val	Asn	Phe	Leu	Gly	Lys	Lys	Asn	Val	Ile	Val	Tyr	Ser	Glu
			85					90					95		
Cys	Met	Ala	Gln	Leu	Phe	Phe	Phe	Val	Ile	Phe	Val	Val	Ala	Glu	Gly
		100						105					110		
Tyr	Leu	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg
	115					120						125			
Pro	Leu	Leu	Tyr	Asn	Val	Ile	Met	Ser	Ser	Arg	Leu	Cys	Ser	Leu	Leu
	130					135					140				
Val	Leu	Val	Ala	Phe	Ile	Leu	Gly	Phe	Val	Ser	Ala	Leu	Ala	His	Thr

145					150					155				160
Ser	Ala	Met	Met	Asn	Leu	Ser	Phe	Cys	Lys	Ser	His	Ile	Ile	Ser
				165					170					175
Tyr	Phe	Cys	Asp	Val	Leu	Pro	Leu	Leu	Asn	Leu	Ser	Cys	Ser	Asn
			180						185				190	
His	Leu	Asn	Glu	Leu	Leu	Leu	Phe	Ile	Ile	Gly	Gly	Phe	Asn	Thr
		195					200					205		
Val	Pro	Thr	Leu	Ala	Val	Ala	Ile	Ser	Tyr	Val	Phe	Ile	Phe	Cys
	210					215					220			
Ile	Leu	His	Ile	Lys	Ser	Ser	Lys	Gly	Arg	Ser	Lys	Ser	Phe	Gly
225				230						235				240
Cys	Ser	Ser	His	Leu	Met	Ala	Val	Gly	Ile	Phe	Phe	Gly	Ser	Ile
			245						250				255	
Phe	Met	Tyr	Phe	Lys	Pro	Ser	Ser	Ser	Asn	Ser	Leu	Glu	Gln	Glu
		260					265						270	
Val	Ser	Ser	Val	Phe	Tyr	Thr	Thr	Val	Ile	Pro	Met	Leu	Asn	Pro
	275					280						285		
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Lys	Ala	Leu	Gly	Arg
	290				295						300			
Phe	Val	Gly	Arg											
305														

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 <212> PRT  
 <213> Mus musculus

<400> 1650

Met	Ala	Leu	Val	Asn	Gly	Ser	Thr	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly
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Leu	Thr	Asp	Gln	Pro	Gly	Leu	Gln	Met	Pro	Leu	Phe	Leu	Leu	Phe	Leu
		20					25						30		
Leu	Met	Tyr	Met	Ile	Thr	Val	Phe	Gly	Asn	Leu	Thr	Leu	Ile	Phe	Leu
	35					40						45			
Ile	Leu	Leu	Asn	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Leu
	50			55						60					
Asn	Leu	Ser	Phe	Val	Asp	Leu	Cys	Tyr	Ser	Ser	Val	Ile	Thr	Pro	Lys
65				70					75					80	
Met	Leu	Met	Asn	Phe	Ile	Leu	Lys	Lys	Asn	Leu	Ile	Ser	Tyr	Met	Gly
			85					90					95		
Cys	Met	Ser	Gln	Leu	Tyr	Phe	Phe	Cys	Phe	Phe	Ile	Ile	Ser	Glu	Cys
		100					105						110		
Tyr	Val	Leu	Val	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
	115					120						125			
Pro	Leu	Leu	Tyr	Asn	Thr	Ala	Met	Ser	Pro	Arg	Val	Cys	Ser	Tyr	Leu
	130				135						140				
Met	Leu	Gly	Ser	Tyr	Leu	Met	Gly	Phe	Phe	Asp	Ala	Met	Ile	His	Thr
145				150					155					160	
Gly	Cys	Met	Leu	Arg	Leu	Ser	Phe	Cys	Asp	Gly	Asn	Ile	Ile	Asn	His
			165					170					175		
Tyr	Phe	Cys	Asp	Val	Leu	Pro	Leu	Leu	Gln	Leu	Ser	Cys	Thr	Ser	Thr
	180						185						190		
Tyr	Val	Asn	Glu	Thr	Glu	Ile	Phe	Ile	Val	Gly	Gly	Lys	Asp	Ile	Ile
	195				200						205				
Leu	Pro	Ser	Ala	Ile	Ile	Phe	Phe	Ser	Tyr	Gly	Phe	Ile	Leu	Ser	Asn
	210				215						220				



Ile	Phe	Gln	Ile	Arg	Ser	Thr	Leu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Ile	Ile	Ala	Val	Ser	Leu	Phe	Phe	Gly	Ser	Cys	Gly
			245						250					255	
Phe	Met	Tyr	Leu	Lys	Pro	Ser	Ser	Ala	Val	Ser	Ile	Asp	Gln	Gly	Lys
			260					265					270		
Ile	Ser	Ser	Ile	Phe	Tyr	Thr	Ile	Val	Val	Pro	Met	Met	Asn	Pro	Leu
			275				280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Val	Ala	Leu	Arg	Lys	Thr
	290					295					300				
Leu	Ser	Arg	Arg	Lys	Phe	Leu	Lys	Val							
305					310										

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 <212> PRT  
 <213> Mus musculus

<400> 1651

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Leu	Thr	Glu	Tyr	Thr	Glu	Thr	His	Phe	Pro	Phe	Phe	Phe	Leu	Phe	Leu
			20					25					30		
Gly	Ile	Tyr	Ala	Ile	Thr	Val	Ala	Gly	Asn	Leu	Gly	Leu	Leu	Thr	Leu
		35				40						45			
Ile	Gly	Met	Asn	Ser	Pro	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Phe
	50					55					60				
Asn	Leu	Ser	Phe	Ile	Asp	Leu	Cys	Tyr	Ser	Thr	Val	Ile	Thr	Pro	Lys
65					70					75				80	
Leu	Leu	Val	Asn	Phe	Val	Ser	Glu	Arg	Asn	Thr	Ile	Ser	Tyr	Glu	Gly
			85						90					95	
Cys	Met	Thr	Gln	Leu	Tyr	Phe	Tyr	Cys	Phe	Phe	Val	Ser	Ala	Glu	Cys
			100					105					110		
Tyr	Val	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	Leu	Tyr	Thr	Val	Thr	Met	Ser	Pro	Gln	Val	Cys	Ser	Leu	Leu
	130					135					140				
Thr	Leu	Ile	Val	Tyr	Val	Gly	Ala	Phe	Ile	Gly	Ala	Trp	Ala	His	Thr
145					150					155				160	
Gly	Cys	Met	Met	Arg	Leu	Thr	Phe	Cys	Lys	Asp	Asn	Thr	Val	Asn	His
			165						170					175	
Tyr	Met	Cys	Asp	Ile	Leu	Pro	Leu	Leu	Glu	Leu	Ser	Cys	Ser	Ser	Thr
			180					185					190		
Tyr	Ile	Asn	Glu	Leu	Val	Val	Phe	Ile	Val	Val	Gly	Phe	Asp	Val	Gly
		195					200					205			
Val	Pro	Ser	Ile	Thr	Ile	Val	Val	Ser	Tyr	Thr	Phe	Ile	Leu	Ser	Ser
	210					215					220				
Ile	Leu	His	Ile	Arg	Ser	Thr	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr
225					230					235				240	
Cys	Ser	Ser	His	Ile	Ile	Val	Val	Ser	Val	Phe	Phe	Gly	Ser	Gly	Ala
			245						250					255	
Phe	Met	Tyr	Leu	His	Pro	Ser	Ser	Val	Leu	Ser	Met	Asp	Gln	Gly	Lys
			260					265					270		
Val	Ser	Thr	Val	Phe	Tyr	Thr	Ile	Val	Val	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Phe	Arg	Asn	Lys	Glu	Val	Lys	Ile	Ala	Leu	Arg	Lys	Thr

290		295		300
Leu	Arg	Met	Lys	Ile
305		Ser	Ser	
		310		

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 <212> PRT  
 <213> Mus musculus

<400> 1652

Met	Met	Gln	Ala	Asn	Gln	Thr	Gln	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly
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Leu	Ser	Asp	Asp	Pro	His	Thr	Gln	Lys	Leu	Leu	Phe	Ile	Leu	Phe	Leu
		20						25					30		
Gly	Ile	Tyr	Met	Val	Thr	Val	Leu	Gly	Asn	Leu	Leu	Leu	Met	Phe	Leu
		35					40					45			
Val	Arg	Ala	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Cys
	50					55					60				
Asn	Leu	Ser	Leu	Ala	Asp	Leu	Cys	Phe	Ser	Thr	Asn	Ile	Val	Pro	Gln
65					70					75					80
Ala	Leu	Ile	His	Leu	Leu	Ser	Arg	Lys	Lys	Thr	Ile	Ser	Phe	Arg	Arg
			85						90					95	
Cys	Ala	Ala	Gln	Leu	Leu	Leu	Phe	Leu	Ile	Phe	Gly	Cys	Thr	Gln	Cys
			100					105					110		
Ala	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
		115					120					125			
Pro	Leu	His	Tyr	Ser	Ser	Ile	Met	Thr	Trp	Arg	Val	Cys	Ile	Gln	Leu
	130					135					140				
Ala	Thr	Val	Ser	Trp	Thr	Ser	Gly	Ile	Leu	Val	Ser	Val	Val	Asp	Thr
145					150					155					160
Thr	Phe	Thr	Leu	Arg	Leu	Pro	Tyr	Arg	Gly	Ser	Asn	Ser	Ile	Ala	His
				165					170					175	
Phe	Phe	Cys	Glu	Ala	Pro	Ala	Leu	Leu	Ala	Leu	Ala	Ser	Thr	Asp	Thr
			180				185						190		
Gln	Thr	Ser	Glu	Met	Ala	Ile	Phe	Leu	Met	Gly	Val	Val	Ile	Leu	Leu
		195					200					205			
Ile	Pro	Val	Ser	Leu	Ile	Leu	Val	Ser	Tyr	Gly	His	Ile	Ile	Val	Thr
	210					215					220				
Val	Val	Lys	Met	Lys	Ser	Ala	Ala	Gly	Arg	Phe	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Met	Val	Val	Ile	Leu	Phe	Tyr	Gly	Ser	Ala	Ile
				245					250					255	
Ile	Thr	Tyr	Met	Thr	Pro	Lys	Ser	Ser	Lys	Glu	Gln	Glu	Lys	Leu	Val
			260					265					270		
Ser	Val	Phe	Tyr	Ala	Met	Val	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr
		275					280					285			
Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Trp	Lys	Val	Ala	Met
	290					295					300				
Lys	Asn	Phe	Ser	Ser	Arg	Leu	Arg	Ile	Thr	His					
305					310					315					

<210> 1653  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1653

Met Gly Ile Glu Asn Thr Thr Leu Leu Thr Glu Phe Val Leu Thr Gly  
1 5 10 15  
Leu Ser His Leu Pro Gln Trp Lys Ile Pro Leu Phe Leu Leu Phe Leu  
20 25 30  
Val Ile Tyr Leu Ile Thr Ile Val Gly Asn Leu Gly Leu Ile Thr Leu  
35 40 45  
Ile Trp Asn Asp Pro His Leu His Ile Pro Met Tyr Phe Phe Leu Gly  
50 55 60  
Ser Leu Ala Phe Val Asp Thr Trp Leu Ser Ser Thr Val Thr Pro Lys  
65 70 75 80  
Met Leu Leu Asp Ile Phe Ser Lys Ser Lys Leu Ile Ser Phe Ser Glu  
85 90 95  
Cys Met Ile Gln Phe Phe Ser Phe Gly Ile Ser Ala Thr Thr Glu Cys  
100 105 110  
Phe Leu Leu Ala Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys  
115 120 125  
Pro Leu Leu Tyr Pro Val Ile Met Thr Asn Arg Leu Cys Val Arg Leu  
130 135 140  
Leu Thr Leu Ser Phe Val Gly Gly Phe Ile His Val Leu Ile His Glu  
145 150 155 160  
Ser Phe Leu Phe Arg Leu Thr Phe Cys Asn Ser Asn Ile Ile His His  
165 170 175  
Phe Tyr Cys Asp Val Met Pro Leu Leu Lys Ile Ser Cys Asn Asp Pro  
180 185 190  
Ser Leu Asn Tyr Leu Met Leu Phe Ile Phe Ser Gly Ser Ile Gln Val  
195 200 205  
Phe Ser Ile Leu Thr Ile Leu Ile Ser Tyr Thr Leu Val Leu Phe Ser  
210 215 220  
Ile Leu Lys Gln Lys Ser Leu Lys Ser Ile Lys Lys Ala Phe Ser Thr  
225 230 235 240  
Cys Gly Ala His Leu Leu Ser Val Ser Leu Tyr Tyr Gly Ser Leu Leu  
245 250 255  
Phe Met Tyr Val Arg Pro Ala Ser Pro Gln Val Asp Asp Gln Asp Met  
260 265 270  
Met Asp Ser Ile Phe Tyr Thr Val Ile Ile Pro Val Leu Asn Pro Ile  
275 280 285  
Ile Tyr Ser Leu Arg Asn Lys Gln Val Lys Asn Ser Leu Glu Lys Phe  
290 295 300  
Leu Lys Arg Asn Thr  
305

<210> 1654

<211> 308

<212> PRT

<213> Mus musculus

<400> 1654

Met Gly Tyr Gly Asn Leu Thr Glu Phe Ile Leu Leu Gly Leu Phe His  
1 5 10 15  
Asn Glu Asp Val Lys Ala Ile Cys Ala Val Leu Phe Leu Leu Cys Tyr  
20 25 30  
Leu Ala Ile Leu Cys Gly Asn Leu Val Val Leu Leu Thr Ile Lys Gly  
35 40 45  
Ser Gln Leu Ser Glu Gln Pro Met Tyr Phe Phe Leu Ser Tyr Leu Ser

50		55		60	
Phe Met Asp Val Cys	Phe Thr Ser Thr Val	Ala Pro Lys Phe Ile Ile			
65	70	75	80		
Gly Leu Leu Val Gln	Cys Asn Thr Ile Ser	Tyr Asn Gly Cys Ile Ala			
	85	90	95		
Gln Met Phe Tyr Ala	His Phe Phe Gly	Ala Thr Glu Ile Phe Ile Leu			
	100	105	110		
Val Val Met Ala Tyr	Asp Arg Tyr Val	Ala Ile Cys Arg Pro Leu Tyr			
	115	120	125		
Tyr Met Ile Thr Met	Ser Arg Gln Val	Cys Tyr Ile Leu Val Ile Gly			
	130	135	140		
Ser Val Phe Gly Ala	Phe Ile His Ser	Leu Val His Val Leu Val Ile			
145	150	155	160		
Ile Arg Leu Pro Phe	Cys Gly Ser Asn	Glu Ile Asp His Tyr Phe Cys			
	165	170	175		
Asp Ile Phe Pro Leu	Leu Lys Leu Ala	Cys Thr Asp Thr Arg Leu Leu			
	180	185	190		
Val Ile Val Ile Ile	Thr Thr Thr Gly	Val Met Ser Ile Leu Thr Phe			
	195	200	205		
Val Ala Leu Val Ile	Ser Tyr Ile Ile	Ile Leu Ser Ile Leu Arg Thr			
	210	215	220		
Arg Ser Ser Glu Ser	Arg Arg Lys Ala	Leu Ser Thr Cys Gly Ser His			
225	230	235	240		
Ile Thr Val Val Phe	Met Phe Phe Leu	Pro Leu Ile Phe Thr Tyr Val			
	245	250	255		
Pro Met Gly Asp Ser	Val Gly Asp Asp	Lys Val Phe Ala Leu Phe Tyr			
	260	265	270		
Thr Met Ile Ala Pro	Leu Phe Asn Pro	Leu Ile Tyr Thr Leu Arg Asn			
	275	280	285		
Thr Asp Met Lys Asn	Ala Met Arg Lys	Val Trp Cys Gln Asp Lys Leu			
	290	295	300		
Phe Glu Gly Lys					
305					

<210> 1655  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 1655

Met Lys Asn Gln Ser	Leu Glu Val Val	Phe Val Leu Leu Gly	Leu Thr
1	5	10	15
Gly Asp Pro Gln Leu	Gln Ile Leu Ile	Phe Leu Phe Leu Phe	Phe Asn
	20	25	30
Tyr Ile Leu Ser Leu	Met Gly Asn Leu	Val Ile Ile Leu Leu Thr	Leu
	35	40	45
Leu Asp Pro His Leu	Lys Thr Pro Met	Tyr Phe Phe Leu Arg Asn	Phe
	50	55	60
Ser Phe Leu Glu Ile	Ala Phe Thr Thr	Val Cys Ile Pro Arg	Phe Leu
	65	70	75
Thr Ser Ile Leu Leu	Gly Glu Lys Met	Ile Leu Tyr Asn Ala	Cys Val
	85	90	95
Ala Gln Leu Phe Phe	Phe Phe Leu Leu	Gly Ala Thr Glu Phe	Tyr Leu
	100	105	110
Leu Ala Ala Met Ser	Tyr Asp Arg Tyr	Val Ala Ile Cys Arg	Pro Leu
	115	120	125

His	Tyr	Pro	Ile	Ile	Met	Asn	Ser	Lys	Val	Cys	His	Leu	Leu	Val	Leu		
130						135					140						
Ser	Ser	Trp	Val	Thr	Gly	Phe	Phe	Val	Ile	Leu	Pro	Pro	Leu	Leu	Leu		
145					150					155						160	
Gly	Leu	Lys	Leu	Asp	Phe	Cys	Ala	Ser	Lys	Thr	Val	Asp	His	Phe	Leu		
				165					170						175		
Cys	Asp	Thr	Ser	Val	Leu	Gln	Leu	Ser	Cys	Thr	Asp	Thr	Arg	Leu	Ile		
			180					185						190			
Glu	Leu	Met	Ala	Phe	Ala	Leu	Ala	Ile	Met	Thr	Leu	Ile	Ile	Thr	Leu		
		195					200					205					
Ile	Leu	Val	Leu	Phe	Ser	Tyr	Thr	Leu	Ile	Ile	Lys	Thr	Ile	Leu	Lys		
	210					215					220						
Phe	Pro	Ser	Ala	Gln	Gln	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser		
225				230						235					240		
His	Met	Val	Val	Val	Ser	Ile	Thr	Tyr	Gly	Ser	Cys	Ile	Phe	Met	Tyr		
				245					250					255			
Val	Lys	Thr	Ser	Ala	Lys	Glu	Arg	Val	Thr	Leu	Asn	Lys	Gly	Ile	Ala		
			260					265					270				
Val	Leu	Asn	Thr	Ser	Val	Ala	Pro	Leu	Leu	Asn	Pro	Phe	Ile	Tyr	Thr		
		275					280					285					
Leu	Arg	Asn	Gln	Gln	Val	Lys	Glu	Ala	Phe	Lys	Asn	Val	Ile	His	Arg		
	290				295					300							
Phe	Cys	Ser	Phe	Lys	Asn	His	Glu	Thr	Arg	Phe	Arg	His	Gln				
305					310					315							

<210> 1656  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1656

Met	Arg	Asn	His	Thr	Thr	Val	Thr	Val	Phe	Ile	Leu	Leu	Gly	Leu	Thr		
1				5					10					15			
Asp	Asp	Leu	Gln	Leu	Gln	Val	Val	Val	Phe	Val	Leu	Leu	Phe	Leu	Thr		
		20						25					30				
Tyr	Met	Leu	Ser	Val	Thr	Gly	Asn	Leu	Thr	Ile	Ile	Thr	Leu	Thr	Leu		
	35					40					45						
Leu	Asp	Ser	His	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe		
	50				55					60							
Ser	Phe	Leu	Glu	Ile	Ser	Phe	Thr	Thr	Val	Cys	Ile	Pro	Lys	Phe	Leu		
65				70					75						80		
Val	Ser	Met	Ala	Thr	Gly	Asp	Lys	Thr	Ile	Ser	Tyr	Asn	Glu	Cys	Ala		
			85					90					95				
Ala	Gln	Leu	Phe	Phe	Thr	Ile	Leu	Leu	Gly	Ala	Thr	Glu	Phe	Phe	Leu		
		100						105				110					
Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu		
		115				120						125					
His	Tyr	Met	Thr	Ile	Met	Ser	Ser	Lys	Ile	Cys	Asn	Leu	Leu	Val	Phe		
	130				135						140						
Val	Ser	Trp	Leu	Ser	Gly	Phe	Leu	Ile	Ile	Phe	Pro	Pro	Leu	Leu	Met		
145					150					155					160		
Gly	Leu	Gln	Leu	Asp	Phe	Cys	Ala	Ala	Asn	Thr	Val	Asp	His	Phe	Phe		
			165					170						175			
Cys	Asp	Val	Ser	Pro	Ile	Leu	Gln	Leu	Ser	Cys	Thr	Asp	Thr	His	Ile		
		180						185					190				
Ile	Glu	Leu	Met	Met	Leu	Leu	Ser	Ala	Ile	Leu	Thr	Leu	Leu	Val	Thr		



Val	Leu	Ser	Val	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Val	Lys	Glu	Ala	Leu	Arg	Lys	Ala
	290					295					300				
Thr	Val	Arg	Val	Tyr	Ser										
305					310										

<210> 1658  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1658

Met	Glu	Ala	Glu	Asn	His	Thr	Thr	Val	Ala	Glu	Leu	Ile	Ile	Leu	Gly
1				5				10						15	
Leu	Thr	Glu	Asp	Pro	Lys	Leu	Cys	Ile	Val	Phe	Phe	Val	Ile	Phe	Leu
		20					25					30			
Gly	Val	Tyr	Ile	Ile	Thr	Leu	Val	Gly	Asn	Ile	Ser	Ile	Ile	Thr	Leu
	35					40					45				
Ile	Arg	Ile	Ser	Ser	Gln	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50				55					60					
His	Leu	Ala	Phe	Val	Asp	Ile	Val	Phe	Ser	Thr	Ser	Val	Ser	Val	Ile
65				70				75							80
Met	Leu	Met	Glu	Leu	Gly	His	Gly	Leu	Val	Leu	Ser	Val	Ala	Glu	Thr
			85				90						95		
Cys	Ala	Ala	Gln	Leu	Cys	Met	Thr	Val	Ser	Phe	Gly	Ser	Ala	Glu	Cys
		100					105						110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Ser
	115					120						125			
Pro	Leu	Leu	Tyr	Ser	Thr	Leu	Met	Ser	Ser	Arg	Val	Cys	Phe	Leu	Leu
	130					135					140				
Leu	Gly	Ile	Ser	Tyr	Val	Gly	Gly	Phe	Val	Asn	Gly	Trp	Thr	Phe	Thr
145					150				155						160
Gly	Cys	Val	Leu	Ser	Leu	Ser	Phe	Cys	Gly	Pro	Thr	Gln	Ile	Asn	His
			165					170						175	
Phe	Phe	Cys	Asp	Phe	Ser	Pro	Leu	Leu	Lys	Val	Ser	Cys	Ser	Asp	Val
		180					185					190			
Ser	Ile	Ile	Gly	Ile	Ile	Pro	Ser	Ile	Ser	Ser	Gly	Ser	Ile	Ile	Val
	195					200					205				
Val	Thr	Val	Phe	Val	Ile	Ala	Val	Ser	Tyr	Ile	Tyr	Ile	Leu	Ile	Thr
	210					215					220				
Ile	Leu	Lys	Met	Arg	Ser	Thr	Glu	Gly	Arg	His	Lys	Ala	Phe	Ser	Thr
225				230					235						240
Cys	Thr	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Phe	Tyr	Gly	Thr	Ile	Thr
			245					250						255	
Val	Ile	Tyr	Val	Met	Pro	Lys	Ser	Ser	Tyr	Ser	Thr	Glu	Gln	Asn	Lys
		260					265						270		
Val	Ile	Ser	Leu	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
	275					280					285				
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Val	Lys	Asp	Ala	Leu	Arg	Lys	Ala
	290					295					300				
Ile	Val	Arg	Val	Tyr	Ser										
305					310										

<210> 1659

<211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1659

Met	Glu	Pro	Gly	Asn	Tyr	Thr	Val	Val	Thr	Glu	Val	Ile	Leu	Leu	Gly
1				5					10					15	
Phe	Thr	Glu	Asp	Ala	Ile	Ile	Arg	Ala	Ile	Leu	Phe	Ile	Val	Phe	Leu
		20					25						30		
Ile	Ile	Tyr	Ser	Val	Thr	Leu	Met	Gly	Asn	Ala	Ser	Ile	Ile	Met	Leu
		35				40						45			
Ile	Arg	Arg	Ser	Pro	Gln	Leu	His	Thr	Pro	Met	Tyr	Leu	Leu	Leu	Ser
	50					55					60				
His	Leu	Ala	Phe	Val	Asp	Ile	Gly	Tyr	Ser	Ser	Ser	Val	Thr	Pro	Ile
65					70					75					80
Met	Leu	Lys	Gly	Phe	Leu	Arg	Lys	Glu	Thr	Phe	Ile	Leu	Val	Ser	Gly
			85						90					95	
Cys	Val	Ala	Gln	Leu	Cys	Ser	Val	Val	Thr	Phe	Gly	Ser	Thr	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Ser
		115					120					125			
Pro	Leu	Leu	Tyr	Ala	Thr	Gln	Met	Ser	Ser	Thr	Val	Cys	Ile	Leu	Leu
	130					135					140				
Val	Gly	Ala	Ser	Tyr	Leu	Gly	Gly	Cys	Val	Asn	Ala	Trp	Thr	Phe	Thr
145					150					155					160
Gly	Cys	Leu	Leu	Asn	Leu	Ser	Phe	Cys	Arg	Pro	Asn	Lys	Val	Asn	His
				165					170					175	
Phe	Phe	Cys	Asp	Tyr	Ser	Pro	Leu	Leu	Lys	Ile	Ser	Cys	Ser	His	Asp
			180					185					190		
Phe	Ser	Ser	Glu	Val	Ile	Pro	Ala	Ile	Ser	Ser	Gly	Ser	Ile	Ile	Val
		195					200					205			
Val	Thr	Val	Phe	Ile	Ile	Ala	Leu	Ser	Tyr	Val	Tyr	Ile	Leu	Val	Ser
	210					215					220				
Ile	Leu	Lys	Met	Arg	Ser	Thr	Glu	Gly	Arg	Gln	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Thr	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Phe	Tyr	Gly	Thr	Ile	Thr
			245						250					255	
Phe	Ile	Tyr	Val	Met	Pro	Lys	Ser	Ser	Tyr	Ser	Thr	Asp	Gln	Asn	Lys
			260					265					270		
Val	Val	Ser	Val	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Ile
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Met	Lys	Lys	Leu
	290					295					300				
Met	Ala	Asn	Thr	His	His										
305					310										

<210> 1660  
 <211> 306  
 <212> PRT  
 <213> Mus musculus

<400> 1660

Met	Met	Asn	Lys	Asn	Asn	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Val	Thr
1				5					10					15	
Arg	Asp	Pro	Glu	Leu	Arg	Lys	Ile	Leu	Ser	Val	Leu	Phe	Leu	Ile	Met
			20					25					30		



Tyr Met Ala Thr Val Phe Gly Asn Leu Leu Ile Val Val Thr Ile Thr  
 35 40 45  
 Arg Ser Pro Ser Leu Arg Ser Pro Met Tyr Phe Phe Leu Leu Ser Leu  
 50 55 60  
 Ser Leu Met Asp Val Thr Tyr Ser Ser Val Ile Ala Pro Lys Leu Ile  
 65 70 75 80  
 Met Asp Ser Leu Ser Glu Arg Thr Ile Val Ser Phe Glu Arg Cys Met  
 85 90 95  
 Thr Gln Leu Phe Ala Glu His Phe Phe Gly Gly Val Gly Ile Ile Leu  
 100 105 110  
 Leu Ile Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu  
 115 120 125  
 His Tyr Val Lys Met Met Thr Pro Arg Val Cys Cys Leu Met Val Gly  
 130 135 140  
 Gly Ala Trp Val Gly Gly Ser Met His Ala Thr Ile Gln Leu Leu Phe  
 145 150 155 160  
 Met Tyr Gln Ile Pro Phe Cys Ser Ser Asn Ile Ile Asp His Phe Met  
 165 170 175  
 Cys Asp Leu Phe Pro Leu Leu Lys Leu Ala Cys Met Asp Thr His Ile  
 180 185 190  
 Leu Gly Leu Leu Val Ile Leu Asn Ser Gly Val Met Cys Val Ser Ile  
 195 200 205  
 Phe Leu Ile Leu Ile Ala Ser Tyr Met Val Ile Leu Cys Ser Leu Lys  
 210 215 220  
 Ser Tyr Ser Ser Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Ser Ser  
 225 230 235 240  
 His Phe Ala Val Val Val Leu Phe Phe Val Pro Cys Ile Phe Leu Tyr  
 245 250 255  
 Met Arg Pro Val Val Thr Phe Pro Ile Asp Lys Ala Met Ala Val Ser  
 260 265 270  
 Phe Thr Ile Val Glu Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg  
 275 280 285  
 Asn Thr Glu Val Lys Tyr Ala Ile Lys Asn Met Cys Arg Lys Gln Gly  
 290 295 300  
 Ser His  
 305

<210> 1661  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1661  
 Met Gln His Gln Val Asn Gln Ser Thr Gly Val Val Phe Val Phe Val  
 1 5 10 15  
 Gly Phe Ser Glu Tyr Pro Asn Leu Gln Val Pro Leu Phe Leu Ile Phe  
 20 25 30  
 Leu Ile Ile Tyr Thr Ile Thr Val Leu Glu Asn Leu Gly Met Ile Leu  
 35 40 45  
 Val Ile Arg Ile Asn Ala Lys Leu His Thr Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Ser His Leu Ser Ile Val Asp Leu Cys Tyr Thr Thr Val Ile Ala Pro  
 65 70 75 80  
 Lys Leu Leu Asp Leu Leu Ile Thr Glu Asp Arg Ser Met Ser Leu Lys  
 85 90 95  
 Gly Cys Ile Ile Gln Phe Tyr Phe Gly Cys Ala Cys Val Val Thr Gln



Phe	Phe	Cys	Asp	Val	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Ala
			180					185					190		
His	Ile	Asn	Glu	Met	Leu	Leu	Leu	Val	Phe	Ser	Gly	Val	Phe	Ala	Ile
		195					200					205			
Ser	Thr	Phe	Ile	Ile	Val	Met	Val	Ser	Tyr	Ile	His	Ile	Ile	Ile	Ala
	210					215					220				
Ile	Leu	Arg	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Thr	Ala	Val	Ala	Leu	Phe	Tyr	Gly	Ser	Leu	Thr
			245						250					255	
Phe	Asn	Tyr	Ile	Gln	Pro	Ser	Ser	Gln	Tyr	Ser	Met	Glu	Gln	Glu	Lys
			260					265					270		
Leu	Ser	Ala	Val	Phe	Tyr	Thr	Leu	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Ala	Lys	Lys	Leu
	290				295						300				
Ile	Cys	Gly	Glu	Arg	Asn	Ala	Pro								
305						310									

<210> 1663  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1663

Met	Ala	Ile	Trp	Asn	His	Thr	Gly	Val	Ser	Glu	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Leu	Thr	Glu	Asn	Pro	Asn	Trp	Gln	Val	Pro	Leu	Phe	Leu	Leu	Phe	Ser
			20					25					30		
Val	Val	Tyr	Phe	Ile	Ile	Leu	Val	Gly	Asn	Trp	Gly	Met	Ile	Ile	Leu
	35						40				45				
Ile	Trp	Leu	Asn	Ala	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Cys	Asp	Ile	Cys	Tyr	Ser	Thr	Ile	Ile	Ala	Pro	Lys
65					70					75					80
Met	Leu	Leu	Asn	Phe	Leu	Ser	Glu	His	Lys	Ser	Ser	Thr	Phe	Phe	Ala
			85						90					95	
Cys	Ile	Leu	Gln	Ser	Phe	Phe	Phe	Ala	Val	Tyr	Val	Thr	Thr	Glu	Val
		100						105					110		
Ile	Leu	Leu	Ser	Met	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Ala	Asn
	115						120					125			
Pro	Leu	Met	Tyr	Thr	Val	Ile	Met	Thr	His	Asn	Ile	Cys	Thr	Gln	Met
	130					135					140				
Val	Leu	Ala	Ser	Tyr	Leu	Gly	Gly	Leu	Ile	Asn	Ser	Met	Ile	His	Thr
145					150					155					160
Ile	Gly	Leu	Leu	Lys	Leu	Asp	Phe	Cys	Gly	Pro	Asn	Ile	Val	Asn	His
			165						170					175	
Phe	Phe	Cys	Asp	Val	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Ala
			180					185					190		
His	Ile	Asn	Glu	Met	Leu	Leu	Leu	Val	Phe	Ser	Gly	Met	Ile	Ala	Ile
		195					200					205			
Phe	Thr	Phe	Ile	Ile	Ile	Met	Val	Ser	Tyr	Ile	His	Ile	Ile	Ile	Ala
	210					215					220				
Ile	Leu	Arg	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Phe	Tyr	Gly	Ser	Leu	Thr



<210> 1665  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1665  
 Met Thr Glu Asn Asn Phe Thr Lys Val Thr Val Phe Met Phe Ser Gly  
 1 5 10 15  
 Phe Ser Asp His Pro Glu Leu Gln Val Ser Leu Phe Leu Ile Phe Leu  
 20 25 30  
 Phe Ile Tyr Leu Phe Thr Val Trp Gly Asn Ile Gly Leu Ile Leu Leu  
 35 40 45  
 Ile Arg Ile Asp Ser Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 Asn Leu Ala Phe Ile Asp Ile Phe Tyr Ser Ser Thr Val Thr Pro Lys  
 65 70 75 80  
 Ala Leu Val Asp Phe Gln Ser Thr Gln Lys Ser Ile Ser Phe Val Gly  
 85 90 95  
 Cys Phe Val Gln Met Tyr Phe Phe Val Gly Leu Val Cys Ser Glu Cys  
 100 105 110  
 Phe Leu Leu Gly Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn  
 115 120 125  
 Pro Leu Leu Tyr Ser Val Ile Met Ser Gln Lys Val Cys Asn Trp Leu  
 130 135 140  
 Ala Val Ile Pro Tyr Met Ile Gly Phe Thr Asn Ser Leu Ile Ser Ile  
 145 150 155 160  
 Cys Val Ile Ser Ser Leu Pro Leu Cys Asp Pro Tyr Ile Asn His Phe  
 165 170 175  
 Phe Cys Asp Thr Thr Ala Leu Leu Ala Leu Ser Cys Val Asp Ala Phe  
 180 185 190  
 Ser Thr Glu Leu Val Ile Phe Val Leu Ala Gly Phe Thr Leu Leu Ser  
 195 200 205  
 Ser Leu Leu Ile Ile Thr Phe Thr Tyr Val Thr Ile Ile Ser Ala Ile  
 210 215 220  
 Leu Arg Ile Gln Ser Ala Ala Gly Arg Trp Lys Ala Phe Ser Thr Cys  
 225 230 235 240  
 Ala Ser His Leu Thr Gly Val Thr Val Phe Tyr Gly Ser Leu Ile Phe  
 245 250 255  
 Thr Tyr Leu Gln Pro Asp Asn Thr Ser Leu Thr Gln Ala Gln Val  
 260 265 270  
 Ala Ser Val Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro Leu Ile  
 275 280 285  
 Tyr Ser Leu Arg Asn Lys Asp Val Lys Asn Ala Leu Leu Arg Val Ile  
 290 295 300  
 His Arg Lys His Leu Leu  
 305 310

<210> 1666  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1666  
 Met Asp Pro Gly Asn His Thr Val Val Lys Glu Phe Ile Leu Leu Gly



Glu Asn Lys Thr Ile Ser Phe Ala Gly Cys Met Ser Gln Val Phe Phe  
                     85                    90                    95  
 Ala His Cys Ile Ala Ala Gly Glu Met Val Leu Leu Val Ile Met Ala  
                     100                    105                    110  
 Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu His Tyr Phe Thr Ile  
                     115                    120                    125  
 Met Asn Met Lys Arg Cys Thr Gly Leu Val Phe Thr Ser Trp Thr Thr  
                     130                    135                    140  
 Gly Phe Val His Ala Leu Ser His Leu Val Val Ile Val Glu Leu Pro  
 145                    150                    155                    160  
 Phe Cys Gly Pro Lys Glu Ile Asp Ser Phe Phe Cys Asp Met Pro Leu  
                     165                    170                    175  
 Val Ile Lys Leu Ala Cys Ile Asp Ser Arg Asp Leu Asp Val Leu Met  
                     180                    185                    190  
 Asn Ala Asp Cys Gly Leu Val Ala Val Thr Cys Phe Ile Leu Leu Leu  
                     195                    200                    205  
 Ile Ser Tyr Thr Tyr Ile Leu Ile Thr Val Cys Gln Ser Ser Lys Ala  
                     210                    215                    220  
 Gly Ala Ser Lys Ala Met Asn Thr Cys Thr Ala His Ile Thr Val Val  
 225                    230                    235                    240  
 Leu Ile Phe Phe Val Pro Cys Ile Phe Ile Tyr Val Trp Pro Leu Ser  
                     245                    250                    255  
 Ile Ile Trp Leu Asp Lys Phe Leu Ala Val Phe Tyr Ser Val Phe Thr  
                     260                    265                    270  
 Pro Leu Leu Asn Pro Ala Ile Tyr Thr Leu Arg Asn Lys Glu Met Lys  
                     275                    280                    285  
 Asn Ala Met Lys Lys Phe Ile Asn Ser Tyr Leu Ser His Lys Gly Asn  
                     290                    295                    300  
 Leu  
 305

<210> 1668  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1668  
 Met Lys Asn Lys Thr Ser Leu Thr Glu Phe Ile Leu Leu Gly Leu Thr  
 1                    5                    10                    15  
 Asp Val Pro Glu Leu Gln Val Ala Val Phe Thr Phe Leu Phe Leu Ala  
                     20                    25                    30  
 Tyr Val Phe Ser Met Ile Gly Asn Leu Thr Ile Leu Ile Leu Thr Leu  
                     35                    40                    45  
 Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Arg Asn Phe  
 50                    55                    60  
 Ser Phe Leu Glu Ile Ser Phe Thr Asn Ile Phe Ile Pro Arg Val Leu  
 65                    70                    75                    80  
 Val Ser Ile Thr Thr Gly Asn Lys Ser Ile Ser Phe Ala Gly Cys Phe  
                     85                    90                    95  
 Ala Gln Tyr Phe Phe Ala Ile Phe Leu Gly Ala Thr Glu Phe Tyr Leu  
                     100                    105                    110  
 Leu Ala Ala Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu  
                     115                    120                    125  
 His Tyr Met Ala Ile Met Ser Asn Arg Val Cys Thr His Leu Val Leu  
                     130                    135                    140  
 Cys Ser Trp Leu Gly Gly Leu Met Ala Ile Ile Pro Pro Ile Thr Leu

145		150		155		160									
Met	Ser	Gln	Gln	Asn	Phe	Cys	Ala	Ser	Asn	Arg	Leu	Asn	His	Tyr	Phe
				165					170					175	
Cys	Asp	Phe	Glu	Pro	Leu	Leu	Glu	Leu	Ser	Cys	Ser	Asp	Thr	Ser	Leu
			180					185					190		
Ile	Glu	Lys	Val	Val	Phe	Leu	Val	Ala	Ser	Val	Thr	Leu	Val	Val	Thr
		195					200					205			
Leu	Met	Leu	Val	Thr	Leu	Ser	Tyr	Thr	Phe	Ile	Ile	Lys	Thr	Ile	Leu
	210					215					220				
Lys	Leu	Pro	Ser	Ala	Gln	Gln	Arg	Thr	Lys	Ala	Phe	Ser	Thr	Cys	Ser
225					230					235					240
Ser	His	Met	Ile	Val	Ile	Ser	Leu	Ser	Tyr	Gly	Ser	Cys	Phe	Phe	Met
			245						250					255	
Tyr	Val	Lys	Pro	Ser	Ala	Lys	Val	Gly	Gly	Thr	Phe	Asp	Lys	Gly	Val
			260					265					270		
Ala	Leu	Leu	Ile	Thr	Ser	Val	Ala	Pro	Leu	Leu	Asn	Pro	Phe	Ile	Tyr
		275					280					285			
Thr	Leu	Arg	Asn	Gln	Gln	Val	Lys	Gln	Ala	Phe	Lys	Asp	Thr	Val	Lys
	290					295					300				
Lys	Leu	Val	Asn	Leu											
305															

<210> 1669  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1669

Met	Lys	Arg	Ala	Asn	Cys	Thr	Glu	Val	Arg	Glu	Phe	Val	Phe	Gln	Gly
1				5					10					15	
Phe	Ser	Asn	Phe	Gln	Glu	His	Gln	Leu	Thr	Leu	Phe	Ile	Ile	Phe	Phe
			20					25					30		
Ala	Leu	Tyr	Ile	Leu	Thr	Leu	Thr	Gly	Asn	Val	Ile	Ile	Val	Thr	Ile
		35					40					45			
Ile	Arg	Ile	Asp	His	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Val	Leu	Ser	Thr	Ser	Glu	Thr	Phe	Tyr	Ser	Leu	Val	Ile	Ile	Pro	Arg
65					70				75						80
Met	Leu	Gly	Ser	Leu	Val	Gly	Leu	Ser	Gln	Thr	Ile	Ser	Leu	Glu	Cys
				85					90					95	
Cys	Gly	Thr	Gln	Leu	Phe	Phe	Phe	Leu	Gly	Phe	Gly	Ile	Thr	Asn	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Val	Met	Gly	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
		115					120					125			
Pro	Leu	Arg	Tyr	Ser	Val	Ile	Met	Asn	Trp	Arg	Val	Cys	Val	Ile	Leu
	130					135					140				
Ala	Ser	Ser	Val	Cys	Ala	Thr	Gly	Phe	Leu	Leu	Ser	Leu	Val	Gln	Ala
145					150				155						160
Leu	Ala	Ile	Phe	Arg	Leu	Pro	Phe	Cys	Asn	Thr	Leu	Ile	Lys	His	Phe
				165					170					175	
Phe	Cys	Asp	Val	Arg	Pro	Ile	Leu	Asp	Leu	Ala	Cys	Thr	Val	Pro	Val
		180						185					190		
Ile	Asn	Gln	Val	Leu	Thr	Leu	Val	Leu	Thr	Leu	Met	Val	Leu	Thr	Ala
	195						200					205			
Pro	Ala	Ile	Phe	Leu	Phe	Val	Ser	Tyr	Ala	Leu	Ile	Ile	Ser	Thr	Ile
	210					215					220				



Leu	Lys	Ile	Ala	Ser	Ser	Asp	Gly	Trp	Lys	Lys	Thr	Phe	Ala	Thr	Cys
225					230					235					240
Ser	Ser	His	Leu	Thr	Val	Val	Val	Ile	His	Tyr	Gly	Cys	Ala	Ser	Ile
				245					250						255
Val	Tyr	Phe	Lys	Pro	Lys	Ser	Glu	Asn	Ser	Lys	Asp	Gln	Asp	Gln	Leu
			260					265					270		
Leu	Ser	Val	Thr	Tyr	Thr	Val	Ile	Thr	Pro	Leu	Leu	Asn	Pro	Val	Val
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Gln	Asp	Ala	Leu	Arg	Lys	Val	Leu
	290					295					300				
Cys	Arg	Lys	Ser	Leu	Ser										
305					310										

<210> 1670  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1670

Met	Lys	Lys	Thr	Asn	Cys	Thr	His	Val	Arg	Glu	Phe	Val	Phe	Gln	Gly
1				5					10					15	
Phe	Ser	Asn	Phe	Gln	Glu	His	Gln	Phe	Thr	Leu	Phe	Val	Val	Phe	Phe
			20					25					30		
Val	Leu	Tyr	Ile	Leu	Thr	Leu	Ala	Gly	Asn	Val	Ile	Ile	Val	Thr	Ile
		35					40					45			
Ile	Arg	Ile	Asp	His	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Val	Leu	Ser	Thr	Ser	Glu	Thr	Phe	Tyr	Ser	Leu	Val	Ile	Ile	Pro	Arg
65					70					75					80
Met	Leu	Gly	Ser	Leu	Val	Gly	Leu	Ser	Gln	Thr	Ile	Ser	Leu	Glu	Cys
				85					90					95	
Cys	Gly	Thr	Gln	Leu	Phe	Phe	Phe	Leu	Gly	Phe	Ala	Ile	Thr	Asn	Cys
			100					105					110		
Leu	Leu	Leu	Ala	Val	Met	Gly	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
		115				120						125			
Pro	Leu	Arg	Tyr	Ser	Val	Ile	Met	Asn	Trp	Arg	Val	Cys	Val	Ile	Leu
	130					135					140				
Ala	Ser	Ser	Val	Gly	Ala	Thr	Gly	Phe	Leu	Leu	Ser	Leu	Ile	Gln	Ala
145					150					155					160
Val	Ala	Ile	Phe	Arg	Leu	Pro	Phe	Cys	Asn	Thr	Leu	Ile	Glu	His	Phe
				165					170					175	
Phe	Cys	Asp	Val	Arg	Pro	Ile	Leu	Asp	Leu	Ala	Cys	Thr	Val	Pro	Val
			180					185					190		
Ile	Asn	Asp	Ile	Leu	Thr	Leu	Ala	Leu	Ser	Leu	Met	Val	Ile	Thr	Ala
		195					200					205			
Pro	Ala	Thr	Phe	Leu	Phe	Val	Ser	Tyr	Val	Leu	Ile	Ile	Ser	Thr	Ile
	210					215					220				
Leu	Lys	Ile	Ala	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Thr	Phe	Ala	Thr	Cys
225					230					235					240
Ala	Ser	His	Leu	Thr	Val	Val	Val	Ile	His	Tyr	Gly	Cys	Ala	Ser	Ile
				245					250						255
Ala	Tyr	Phe	Lys	Pro	Lys	Ser	Glu	Asn	Thr	Lys	Asp	Gln	Asp	Gln	Leu
			260					265					270		
Ile	Ser	Val	Thr	Tyr	Thr	Val	Ile	Thr	Pro	Leu	Leu	Asn	Pro	Val	Val
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Gln	Asp	Ala	Leu	Arg	Lys	Val	Leu

290		295		300
Gly	Lys	Lys	Ser	Leu
305			Ser	
			310	

<210> 1671  
 <211> 305  
 <212> PRT  
 <213> Mus musculus

<400> 1671  
 Met Asp Gln Asn Asn Asn Thr Val Ser Glu Phe Ile Met Leu Gly Phe  
 1 5 10 15  
 Thr Thr Asp Pro Val Ile Gln Lys Val Leu Phe Ala Val Phe Leu Val  
 20 25 30  
 Val Tyr Thr Leu Thr Leu Met Gly Asn Ser Ser Leu Ile Met Leu Ile  
 35 40 45  
 Cys Asn Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Ile Gly Asn  
 50 55 60  
 Leu Ser Phe Leu Asp Leu Gly Leu Ser Ser Val Tyr Thr Pro Lys Ile  
 65 70 75 80  
 Leu Glu Thr Cys Ile Ser Glu Asp Lys Ser Ile Ser Phe Ala Gly Cys  
 85 90 95  
 Val Ala Gln Phe Phe Ser Ala Ala Leu Asp Tyr Thr Glu Cys Tyr  
 100 105 110  
 Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Ser Lys Pro  
 115 120 125  
 Leu Leu Tyr Ser Gln Ala Met Ser Leu Lys Leu Cys Val Cys Phe Val  
 130 135 140  
 Ala Ala Ser Tyr Val Gly Gly Phe Ile Asn Ser Val Ile Ile Thr Lys  
 145 150 155 160  
 Asp Thr Phe Ala Leu Thr Phe Cys Asn Asp Asn Val Ile Asp Asp Phe  
 165 170 175  
 Phe Cys Asp Ile Pro Pro Leu Val Lys Leu Ala Cys Gly Lys Lys Lys  
 180 185 190  
 Ser Phe Gln Ser Val Leu Phe Phe Leu Leu Thr Ser Asn Val Ile Ile  
 195 200 205  
 Pro Ile Val Phe Ile Leu Ala Thr Tyr Leu Phe Ile Ile Ala Thr Ile  
 210 215 220  
 Leu Arg Ile Arg Ser Thr Gln Gly Arg Leu Lys Ala Phe Ser Thr Cys  
 225 230 235 240  
 Ser Ser His Leu Ile Ser Val Thr Leu Tyr Tyr Gly Ser Ile Leu Tyr  
 245 250 255  
 Ile Tyr Ala Arg Pro Arg Ser Ser Tyr Ser Leu Asp Arg Asp Lys Ile  
 260 265 270  
 Val Ser Thr Phe Tyr Thr Val Val Phe Pro Met Leu Asn Pro Leu Ile  
 275 280 285  
 Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Leu Asn Lys Leu Leu  
 290 295 300  
 Lys  
 305

<210> 1672  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1672

Met	Arg	Asn	Leu	Ser	Gly	Ser	His	Val	Glu	Glu	Phe	Val	Leu	Val	Gly
1				5					10					15	
Phe	Pro	Thr	Ser	Arg	Pro	Phe	Gln	Ala	Leu	Leu	Phe	Val	Phe	Phe	Phe
			20					25					30		
Ala	Ile	Tyr	Leu	Leu	Thr	Leu	Leu	Glu	Asn	Val	Leu	Ile	Val	Ser	Thr
		35					40					45			
Ile	Trp	Leu	Thr	Pro	Ser	Leu	His	Arg	Pro	Met	Tyr	Phe	Phe	Leu	Gly
	50					55					60				
His	Leu	Ser	Phe	Leu	Glu	Leu	Trp	Tyr	Ile	Asn	Val	Thr	Ile	Pro	Arg
65					70					75					80
Leu	Leu	Gly	Ala	Phe	Leu	Thr	Gln	Asp	Gly	Arg	Val	Ser	Tyr	Gly	Gly
			85						90					95	
Cys	Met	Thr	Gln	Leu	Tyr	Phe	Phe	Ile	Ala	Leu	Ala	Cys	Thr	Glu	Cys
			100					105					110		
Val	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Glu
		115					120					125			
Pro	Leu	Arg	Tyr	Pro	Ser	Leu	Met	Pro	Pro	Arg	Leu	Ala	Thr	Arg	Leu
	130					135					140				
Ala	Ala	Ala	Ser	Trp	Gly	Ser	Gly	Phe	Phe	Ser	Ser	Met	Met	Lys	Leu
145					150					155					160
Leu	Phe	Ile	Ser	Arg	Leu	Ser	Tyr	Cys	Gly	Pro	Asn	Ile	Ile	Asn	His
			165						170					175	
Phe	Phe	Cys	Asp	Ile	Ser	Pro	Leu	Leu	Asn	Leu	Thr	Cys	Ser	Asp	Lys
			180					185					190		
Glu	Gln	Ala	Glu	Leu	Val	Asp	Phe	Leu	Leu	Ala	Leu	Val	Met	Ile	Leu
		195					200					205			
Leu	Pro	Leu	Val	Ala	Val	Val	Ser	Ser	Tyr	Ala	Ala	Ile	Ile	Val	Ala
	210					215					220				
Ile	Leu	Arg	Ile	Pro	Thr	Ala	Gln	Gly	Arg	His	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Thr	Ser	His	Leu	Ala	Val	Val	Val	Ile	Tyr	Tyr	Ser	Ser	Thr	Leu
			245						250					255	
Phe	Thr	Tyr	Ala	Arg	Pro	Arg	Ala	Met	Tyr	Thr	Phe	Asn	Tyr	Asn	Lys
		260						265					270		
Ile	Ile	Ser	Val	Leu	Tyr	Thr	Val	Ile	Val	Pro	Phe	Leu	Asn	Pro	Ala
	275						280					285			
Ile	Tyr	Cys	Leu	Arg	Asn	Lys	Glu	Val	Lys	Asp	Ala	Phe	Arg	Lys	Thr
	290					295					300				
Met	Leu	Gly	Arg	Cys	His	Pro	Arg	Glu	Gly	Pro	Asp				
305					310				315						

<210> 1673

<211> 312

<212> PRT

<213> Mus musculus

<400> 1673

Met	Ser	Pro	Gly	Asn	Ser	Ser	Trp	Ile	His	Pro	Ser	Ser	Phe	Leu	Leu
1				5					10					15	
Leu	Gly	Ile	Pro	Gly	Leu	Glu	Glu	Leu	Gln	Phe	Trp	Leu	Gly	Leu	Pro
			20					25					30		
Phe	Gly	Thr	Val	Tyr	Leu	Ile	Ala	Val	Leu	Gly	Asn	Val	Ile	Ile	Leu
		35					40					45			
Phe	Val	Ile	Tyr	Leu	Glu	His	Ser	Leu	His	Gln	Pro	Met	Phe	Tyr	Leu



Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Lys	Pro	Leu	Arg	Tyr	Pro	Ala	Ile	Met
130						135					140				
Asn	Pro	Arg	Val	Cys	Phe	Leu	Leu	Val	Phe	Phe	Ser	Tyr	Val	Leu	Ser
145					150					155					160
Phe	Ile	Leu	Val	Thr	Gly	Val	Ile	Leu	Arg	Leu	Ser	Arg	Leu	Ser	Phe
				165					170						175
Cys	Gly	Ser	Asn	Val	Ile	Pro	His	Phe	Phe	Cys	Asp	Leu	Gly	Ser	Leu
			180					185					190		
Ile	His	Leu	Ser	Cys	Ser	Asp	Thr	Lys	Ser	Leu	Glu	Ser	Met	Ala	Phe
		195					200					205			
Gly	Val	Ala	Val	Val	Val	Leu	Phe	Thr	Ser	Val	Leu	Ala	Ala	Ile	Phe
	210					215					220				
Ala	Tyr	Ser	Asn	Ile	Leu	Ile	Ser	Ile	Met	Arg	Leu	Pro	Leu	Ala	Lys
225					230					235					240
Asp	Arg	Gln	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Ile	Val	Leu
				245					250						255
Ser	Leu	Met	Tyr	Gly	Ser	Cys	Val	Phe	Ile	Tyr	Val	Lys	Pro	Lys	Gln
			260					265					270		
Val	Ser	Arg	Leu	Glu	Ser	Asn	Arg	Glu	Ala	Ala	Leu	Val	Asn	Thr	Val
		275					280						285		
Val	Thr	Pro	Leu	Leu	Asn	Pro	Val	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Gln
	290					295					300				
Val	His	Gln	Ala	Leu	Arg	Asp	Ala	Leu	Ser	Arg	Val	Asn	Leu	Gln	Lys
305					310					315					320

<210> 1675  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1675

Met	Leu	His	Ser	Asn	Lys	Thr	Gln	Phe	His	Pro	Ser	Ser	Phe	Leu	Leu
1				5				10					15		
Ile	Gly	Ile	Pro	Gly	Leu	Glu	Glu	Leu	His	Leu	Trp	Ile	Gly	Phe	Pro
			20					25					30		
Phe	Phe	Ala	Val	Tyr	Leu	Ile	Ala	Val	Leu	Gly	Asn	Ile	Ile	Ile	Leu
		35					40					45			
Phe	Val	Ile	Gln	Thr	Glu	Arg	Ser	Leu	His	Gln	Pro	Met	Phe	Tyr	Phe
	50					55					60				
Leu	Ala	Met	Leu	Ala	Cys	Thr	Asp	Leu	Gly	Leu	Ser	Thr	Ala	Thr	Ile
65					70					75					80
Pro	Lys	Met	Leu	Gly	Ile	Phe	Trp	Phe	Asn	Leu	Arg	Glu	Ile	Ala	Phe
				85					90					95	
Gly	Ala	Cys	Ile	Thr	Gln	Met	Tyr	Ile	Ile	His	Thr	Cys	Thr	Gly	Leu
			100					105					110		
Glu	Ser	Val	Val	Leu	Thr	Ile	Met	Ala	Ile	Asp	Arg	Tyr	Ile	Ala	Ile
		115					120					125			
Cys	Tyr	Pro	Leu	Arg	Tyr	Ser	Met	Ile	Leu	Thr	Asn	Lys	Val	Ile	Ala
		130					135				140				
Ile	Leu	Gly	Ile	Ile	Ile	Ile	Val	Arg	Thr	Leu	Ile	Phe	Val	Thr	Pro
145					150					155					160
Phe	Ile	Phe	Leu	Ile	Leu	Arg	Leu	Pro	Phe	Cys	Gly	Val	Arg	Ile	Ile
				165					170					175	
Pro	His	Thr	Tyr	Cys	Glu	His	Met	Gly	Leu	Ala	Lys	Leu	Ala	Cys	Ala
			180					185					190		
Asn	Ile	Lys	Val	Asn	Val	Ile	Tyr	Gly	Leu	Val	Ala	Phe	Ser	Val	Gly

	195		200		205										
Tyr	Ile	Asp	Leu	Ser	Val	Ile	Gly	Phe	Ser	Tyr	Ile	Arg	Ile	Leu	Gln
	210					215					220				
Ala	Val	Phe	Arg	Leu	Pro	Ser	Trp	Asp	Ala	Arg	Leu	Lys	Ala	Leu	Ser
225					230					235					240
Thr	Cys	Gly	Ser	His	Val	Ser	Val	Met	Leu	Ala	Phe	Tyr	Leu	Pro	Ala
				245					250					255	
Leu	Phe	Ser	Phe	Met	Thr	His	Arg	Phe	Gly	His	Asn	Ile	Pro	His	Tyr
			260					265					270		
Ile	His	Ile	Leu	Leu	Ala	Asn	Leu	Tyr	Val	Val	Val	Pro	Pro	Ala	Leu
	275						280					285			
Asn	Pro	Val	Ile	Tyr	Gly	Val	Arg	Thr	Lys	Gln	Ile	Arg	Glu	Arg	Val
	290					295					300				
Leu	Arg	Met	Leu	Asn	Pro	Lys	Met	His							
305					310										

<210> 1676  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 1676

Met	Leu	Gln	Met	Gln	Asp	Asn	Thr	Glu	Phe	Leu	Ser	Asn	Phe	Thr	Ser
1				5					10					15	
Lys	Leu	Pro	Thr	Phe	Leu	Leu	Thr	Gly	Ile	Pro	Gly	Leu	Glu	Ser	Ala
			20					25					30		
His	Gly	Trp	Ile	Ser	Ile	Pro	Phe	Cys	Cys	Leu	Tyr	Ala	Thr	Ala	Leu
	35					40						45			
Ser	Gly	Asn	Ser	Met	Ile	Leu	Phe	Ile	Ile	Val	Thr	Gln	His	Ser	Leu
	50				55					60					
His	Glu	Pro	Met	Tyr	Tyr	Phe	Leu	Ser	Val	Leu	Ser	Ala	Thr	Asp	Leu
65				70					75						80
Gly	Leu	Thr	Phe	Ser	Thr	Met	Ser	Thr	Thr	Leu	Arg	Ile	Leu	Trp	Phe
				85				90						95	
Gln	Ala	Asn	Glu	Ile	Ser	Leu	Asp	Phe	Cys	Ile	Val	Gln	Met	Phe	Phe
		100					105					110			
Leu	His	Gly	Phe	Thr	Cys	Thr	Glu	Ser	Gly	Val	Leu	Val	Ala	Met	Ala
	115					120						125			
Phe	Asp	Arg	Tyr	Val	Ala	Ile	Tyr	Lys	Pro	Leu	Arg	Tyr	Thr	Met	Ile
	130				135					140					
Leu	Met	Asn	Ser	Arg	Ile	Ile	Gln	Ile	Gly	Phe	Leu	Val	Ile	Met	His
145				150					155						160
Thr	Leu	Leu	Leu	Thr	Val	Pro	Leu	Leu	Leu	Leu	Lys	Pro	Val	Ser	
			165					170						175	
Phe	Cys	Lys	Arg	Asn	Thr	Leu	Ser	His	Ser	Tyr	Cys	Tyr	His	Pro	Asp
			180				185						190		
Val	Ile	Lys	Leu	Ala	Cys	Ser	Asp	Thr	Arg	Ala	Asn	Ser	Ile	Cys	Gly
	195					200						205			
Leu	Val	Asp	Leu	Ile	Leu	Thr	Thr	Gly	Val	Asp	Ile	Pro	Cys	Ile	Val
	210					215					220				
Leu	Ser	Tyr	Ile	Leu	Ile	Ile	Arg	Ser	Val	Leu	Asn	Ile	Ala	Phe	Ser
225				230					235						240
Glu	Glu	Arg	His	Lys	Ala	Phe	Ser	Thr	Cys	Val	Ser	His	Ile	Ala	Ala
			245					250						255	
Val	Ala	Val	Phe	Tyr	Ile	Pro	Thr	Phe	Ser	Leu	Ser	Leu	Val	His	Arg
			260					265					270		

Tyr	Gly	Arg	Ser	Val	Pro	Lys	Val	Val	His	Thr	Met	Met	Ala	Asn	Val
		275					280					285			
Tyr	Leu	Leu	Leu	Pro	Pro	Val	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Val	Lys
	290					295					300				
Thr	Lys	Gln	Ile	Arg	Lys	Ala	Ile	Leu	Ser	Leu	Leu	Phe	Ala	Lys	
305					310					315					

<210> 1677  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 1677

Met	Val	Asn	Asp	Thr	Thr	His	His	Tyr	Ile	Ser	Phe	Phe	Tyr	Leu	Val
1				5				10						15	
Gly	Ile	Pro	Gly	Phe	Glu	Asn	Phe	Tyr	Tyr	Leu	Ile	Ser	Ile	Pro	Val
		20						25					30		
Cys	Leu	Leu	Phe	Val	Leu	Thr	Leu	Leu	Gly	Asn	Ser	Val	Val	Ile	Ala
	35					40						45			
Thr	Ile	Lys	Leu	Glu	Pro	Ser	Leu	His	Gln	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Cys	Met	Leu	Ala	Met	Asn	Asp	Ile	Leu	Leu	Thr	Cys	Ser	Thr	Ser	Leu
65					70					75					80
Lys	Met	Leu	Gly	Ile	Phe	Trp	Phe	Asn	Glu	His	Trp	Ile	Glu	Phe	Asp
			85					90						95	
Val	Cys	Leu	Thr	Gln	Met	Tyr	Phe	Ile	His	Thr	Leu	Cys	Ile	Phe	Glu
			100					105					110		
Ser	Ala	Ile	Leu	Val	Ala	Met	Ala	Phe	Asp	Arg	Phe	Val	Ala	Ile	Cys
		115					120					125			
Ile	Pro	Leu	His	Tyr	Ala	Thr	Ile	Leu	Thr	Thr	Ala	Met	Val	Ile	Lys
	130					135					140				
Leu	Gly	Val	Val	Gly	Leu	Ser	Arg	Ala	Leu	Leu	Met	Val	Leu	Pro	Cys
145					150					155					160
Pro	Leu	Leu	Ile	Lys	Arg	Leu	Pro	Tyr	Tyr	Thr	Gly	Tyr	Ile	Ile	Pro
			165					170						175	
His	Thr	Tyr	Cys	Glu	His	Met	Ala	Val	Val	Lys	Leu	Ala	Ser	Ala	Asn
		180						185					190		
Thr	Phe	Ile	Asn	Arg	Ala	Tyr	Gly	Ile	Ser	Ala	Ala	Leu	Ser	Val	Ile
	195					200						205			
Thr	Leu	Asp	Val	Trp	Leu	Ile	Ala	Ala	Ser	Tyr	Ile	Lys	Ile	Leu	Gln
	210				215						220				
Ala	Val	Phe	Arg	Leu	Ser	Ser	Gln	Asn	Ala	Arg	Ser	Lys	Ala	Leu	Gly
225					230					235					240
Thr	Cys	Ala	Ala	His	Val	Cys	Thr	Ile	Leu	Ala	Phe	Tyr	Thr	Pro	Ala
			245					250						255	
Leu	Phe	Ser	Phe	Leu	Thr	His	Arg	Ile	Gly	Lys	Asn	Val	Pro	Pro	Ser
		260						265					270		
Val	His	Ile	Ile	Leu	Ala	Ser	Met	Tyr	Leu	Leu	Val	Pro	Pro	Thr	Val
	275					280						285			
Asn	Pro	Leu	Val	Tyr	Gly	Val	Lys	Thr	Lys	Gln	Ile	Arg	Asp	Arg	Val
	290					295					300				
Leu	Ser	Leu	Phe	Ser	His	Leu	Lys	Ile	Ala	Glu	Tyr				
305					310					315					

<210> 1678

<211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1678

Met	Gln	His	Thr	Asn	His	Ser	His	Gln	Asn	Pro	Ser	Ser	Phe	Leu	Leu
1				5					10					15	
Met	Gly	Ile	Pro	Gly	Leu	Glu	Ala	Ser	His	Phe	Trp	Ile	Ala	Phe	Pro
			20					25					30		
Phe	Cys	Ser	Met	Tyr	Ala	Leu	Ala	Val	Leu	Gly	Asn	Met	Ala	Val	Leu
		35					40					45			
Leu	Val	Val	Arg	Ser	Glu	Pro	Ser	Leu	His	Gln	Pro	Met	Tyr	Leu	Phe
	50					55					60				
Leu	Cys	Met	Leu	Ser	Thr	Ile	Asp	Leu	Ile	Leu	Cys	Thr	Ser	Thr	Val
65					70					75					80
Pro	Lys	Leu	Leu	Ala	Leu	Phe	Trp	Ala	Asn	Ala	Ala	Glu	Ile	Ala	Phe
				85					90					95	
Gly	Ala	Cys	Ala	Thr	Gln	Met	Phe	Phe	Ile	His	Gly	Phe	Ser	Ala	Val
			100					105					110		
Glu	Ser	Gly	Ile	Leu	Leu	Ser	Met	Ala	Phe	Asp	Arg	Tyr	Leu	Ala	Ile
	115					120						125			
Cys	Arg	Pro	Leu	His	Tyr	Gly	Ser	Leu	Leu	Ser	Ser	Glu	Ser	Val	Ser
	130					135					140				
Lys	Leu	Gly	Ala	Ala	Ala	Leu	Leu	Arg	Gly	Leu	Gly	Leu	Met	Thr	Pro
145					150					155					160
Leu	Thr	Cys	Leu	Leu	Ala	Arg	Leu	Ser	Tyr	Cys	Gly	Arg	Val	Val	Ala
			165					170					175		
His	Ser	Tyr	Cys	Glu	His	Met	Ala	Val	Val	Lys	Leu	Ala	Cys	Gly	Gly
		180						185					190		
Thr	Gln	Pro	Asn	Asn	Ile	Tyr	Gly	Ile	Thr	Ala	Ala	Thr	Leu	Val	Val
	195						200					205			
Gly	Thr	Asp	Ser	Ile	Cys	Ile	Ala	Ile	Ser	Tyr	Ala	Leu	Ile	Leu	Arg
	210					215					220				
Ala	Val	Leu	Gly	Leu	Ser	Ser	Lys	Glu	Ala	Arg	Ala	Lys	Thr	Phe	Gly
225					230					235					240
Thr	Cys	Gly	Ser	His	Leu	Gly	Val	Ile	Leu	Leu	Phe	Tyr	Thr	Pro	Gly
			245					250						255	
Leu	Phe	Ser	Phe	Tyr	Thr	Gln	Arg	Phe	Gly	Gln	His	Val	Pro	Arg	His
		260						265					270		
Val	His	Ile	Leu	Leu	Ala	Asp	Leu	Tyr	Leu	Val	Val	Pro	Pro	Met	Leu
	275						280					285			
Asn	Pro	Ile	Ile	Tyr	Gly	Met	Lys	Thr	Lys	Gln	Ile	Arg	Asp	Gly	Ala
	290					295					300				
Leu	Arg	Leu	Leu	Lys	Arg	Gly	Pro	Ala	Gln	Ser					
305					310					315					

<210> 1679  
 <211> 324  
 <212> PRT  
 <213> Mus musculus

<400> 1679

Met	Leu	Gly	Pro	Ser	Tyr	Asn	His	Thr	Met	Glu	Ser	Pro	Gly	Thr	Phe
1				5					10					15	
Phe	Leu	Leu	Gly	Ile	Pro	Gly	Phe	Gln	Ser	Ser	Tyr	Leu	Trp	Leu	Ala
			20					25					30		



Ile	Ser	Leu	Ser	Thr	Met	Tyr	Ser	Ile	Ala	Leu	Leu	Gly	Asn	Met	Leu
	35						40					45			
Ile	Ile	Ile	Val	Ile	Cys	Met	Asp	Ser	Thr	Leu	Gln	Glu	Pro	Met	Tyr
	50					55					60				
Phe	Phe	Leu	Cys	Val	Leu	Ala	Ala	Val	Asp	Ile	Val	Met	Ala	Ser	Ser
65					70				75					80	
Val	Val	Pro	Lys	Met	Val	Ser	Ile	Phe	Ser	Ser	Gly	Asp	Ser	Ser	Ile
			85					90						95	
Ser	Phe	Asn	Ala	Cys	Phe	Thr	Gln	Met	Tyr	Phe	Val	His	Ala	Ala	Thr
		100						105					110		
Ala	Val	Glu	Thr	Gly	Leu	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val
	115						120					125			
Ala	Ile	Cys	Lys	Pro	Leu	His	Tyr	Met	Arg	Ile	Leu	Thr	Arg	His	Val
	130					135					140				
Met	Leu	Gly	Ile	Ser	Val	Thr	Ile	Thr	Val	Arg	Ala	Val	Ile	Phe	Met
145					150					155					160
Thr	Pro	Leu	Ser	Trp	Met	Leu	Ser	His	Leu	Pro	Phe	Cys	Ala	Ser	Asn
				165					170					175	
Val	Val	Pro	His	Ser	Tyr	Cys	Glu	His	Met	Ala	Val	Ala	Lys	Leu	Ala
		180						185					190		
Cys	Ala	Asp	Pro	Met	Pro	Ser	Ser	Leu	Tyr	Ser	Leu	Ile	Phe	Ser	Ser
	195						200					205			
Ile	Ile	Val	Gly	Ser	Asp	Val	Ala	Phe	Ile	Ser	Ala	Ser	Tyr	Ser	Leu
	210					215					220				
Ile	Leu	Lys	Ala	Val	Phe	Gly	Leu	Ser	Ser	Arg	Asn	Ala	Gln	Trp	Lys
225					230					235					240
Ala	Leu	Ser	Thr	Cys	Gly	Ser	His	Val	Gly	Val	Met	Ala	Leu	Tyr	Tyr
				245					250					255	
Leu	Pro	Gly	Met	Ala	Ser	Ile	Tyr	Val	Ala	Trp	Leu	Gly	Gln	Asp	Arg
		260						265					270		
Val	Pro	Leu	His	Thr	Gln	Val	Leu	Leu	Ala	Asp	Leu	Tyr	Leu	Ile	Ile
		275					280					285			
Pro	Pro	Thr	Leu	Asn	Pro	Ile	Ile	Tyr	Gly	Ile	Arg	Thr	Arg	Gln	Ile
	290					295					300				
Arg	Glu	Arg	Ile	Trp	Ser	Leu	Leu	Thr	His	Cys	Phe	Phe	Ser	Gln	Cys
305					310					315					320
Thr	Gln	Gly	Ser												

<210> 1680  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1680

Met	Gln	Leu	Asn	Ile	Asn	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Gln	Asp	Pro	Ser	Arg	Lys	Asn	Ile	Val	Phe	Ala	Ile	Phe	Leu	Phe	Phe
		20						25					30		
Tyr	Met	Gly	Thr	Leu	Leu	Gly	Asn	Phe	Leu	Ile	Ile	Val	Thr	Ile	Lys
	35						40					45			
Thr	Ser	Pro	Ala	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Phe	Tyr	Leu
	50					55					60				
Ser	Leu	Ser	Asp	Thr	Cys	Phe	Ser	Thr	Thr	Val	Ala	Pro	Arg	Thr	Ile
65					70					75				80	
Val	Asp	Ser	Leu	Leu	Lys	Glu	Ala	Ser	Ile	Ser	Phe	Asn	Glu	Cys	Ile



Ile	Gly	Leu	Ile	Lys	Leu	Ser	Phe	Cys	Gly	Pro	Asn	Val	Ile	Ser	His
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Pro	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Thr
			180					185					190		
Ser	Met	Asn	Glu	Leu	Leu	Leu	Leu	Val	Phe	Ser	Gly	Val	Ile	Ala	Ile
		195					200					205			
Thr	Thr	Leu	Leu	Thr	Val	Val	Leu	Ser	Tyr	Ile	Phe	Ile	Val	Ala	Ala
	210					215					220				
Ile	Leu	Arg	Ile	Arg	Ser	Ala	Ala	Gly	Arg	His	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Phe	Tyr	Gly	Ser	Ile	Ser
			245					250						255	
Phe	Ser	Tyr	Ile	Gln	Pro	Ser	Ser	Gln	Tyr	Ser	Leu	Glu	Gln	Glu	Lys
			260					265					270		
Val	Val	Ser	Val	Phe	Tyr	Thr	Leu	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Asp	Ala	Val	Lys	Arg	Val
	290				295						300				
Met	Glu	Ile	Lys	His	Ser	Leu	His								
305					310										

<210> 1682  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 1682

Met	Ile	Thr	Ser	Asn	Val	Ser	Ser	Tyr	Asn	Pro	Gly	Pro	Phe	Leu	Leu
1				5					10					15	
Val	Gly	Ile	Pro	Gly	Leu	Glu	His	Phe	His	Val	Trp	Ile	Gly	Ile	Pro
			20					25					30		
Phe	Cys	Val	Ile	Tyr	Ile	Ile	Ala	Val	Val	Gly	Asn	Cys	Ile	Leu	Leu
		35					40					45			
Tyr	Leu	Ile	Thr	Val	Glu	Arg	Ser	Leu	His	Glu	Pro	Met	Phe	Phe	Phe
	50					55					60				
Leu	Ser	Met	Leu	Ala	Met	Thr	Asp	Leu	Ile	Leu	Ser	Thr	Asp	Gly	Val
65					70					75					80
Pro	Lys	Thr	Leu	Ser	Ile	Phe	Trp	Met	Gly	Ala	Arg	Glu	Ile	Thr	Phe
				85					90					95	
Pro	Gly	Cys	Leu	Thr	Gln	Met	Phe	Phe	Leu	His	Tyr	Ser	Phe	Val	Leu
			100					105					110		
Asp	Ser	Ala	Ile	Leu	Met	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Cys	Ser	Pro	Leu	Arg	Tyr	Ala	Thr	Ile	Leu	Thr	Pro	Lys	Thr	Ile	Val
		130					135				140				
Lys	Ile	Ala	Val	Gly	Ile	Ser	Phe	Arg	Ser	Phe	Cys	Ile	Ile	Leu	Pro
145					150					155					160
Val	Val	Phe	Leu	Leu	Thr	Arg	Leu	Pro	Phe	Cys	Arg	Thr	Arg	Ile	Ile
				165					170					175	
Pro	His	Thr	Tyr	Cys	Glu	His	Ile	Gly	Val	Ala	Arg	Leu	Ala	Cys	Ala
			180					185					190		
Asp	Ile	Ser	Ile	Asn	Ile	Trp	Tyr	Gly	Phe	Cys	Val	Pro	Ile	Met	Thr
		195					200					205			
Val	Ile	Ser	Asp	Val	Val	Leu	Ile	Ala	Val	Ser	Tyr	Thr	Leu	Ile	Leu
	210					215					220				
Cys	Ala	Val	Phe	Arg	Leu	Pro	Ser	Arg	Asp	Ala	Arg	Gln	Lys	Ala	Leu

225					230					235				240	
Gly	Thr	Cys	Gly	Ser	His	Val	Cys	Val	Ile	Leu	Met	Phe	Tyr	Thr	Pro
				245					250					255	
Ala	Phe	Phe	Ser	Ile	Leu	Ala	His	Arg	Phe	Gly	His	Asn	Val	Ser	Leu
			260					265					270		
Thr	Phe	His	Ile	Met	Phe	Ala	Asn	Leu	Tyr	Ile	Val	Ile	Pro	Pro	Ala
		275					280					285			
Met	Asn	Pro	Ile	Val	Tyr	Gly	Val	Lys	Thr	Lys	Gln	Ile	Arg	Glu	Lys
	290					295					300				
Val	Ile	Leu	Leu	Phe	Ser	Val	Lys	Ser	Ile	Asp	Gly				
305					310					315					

<210> 1683  
 <211> 320  
 <212> PRT  
 <213> Mus musculus

<400> 1683

Met	Gly	Thr	Lys	His	Ala	Thr	Asn	Ser	Ser	Glu	Phe	Gln	Val	Ser	Glu
1				5					10					15	
Phe	Ile	Leu	Leu	Gly	Phe	Pro	Gly	Ile	His	Glu	Phe	Gln	Ile	Trp	Leu
		20					25						30		
Ser	Leu	Pro	Met	Ala	Leu	Leu	Tyr	Ile	Ile	Ala	Leu	Gly	Ala	Asn	Phe
	35						40					45			
Leu	Ile	Leu	Ile	Thr	Ile	Tyr	Leu	Glu	Pro	Asn	Leu	His	Gln	Ser	Met
	50					55					60				
Tyr	Gln	Phe	Leu	Gly	Ile	Leu	Ala	Val	Val	Asp	Ile	Gly	Leu	Ala	Thr
65					70					75					80
Thr	Ser	Met	Pro	Lys	Ile	Leu	Ala	Ile	Leu	Trp	Phe	Asp	Ala	Lys	Thr
				85					90					95	
Ile	Ser	Leu	Pro	Glu	Cys	Phe	Ala	Gln	Ile	Tyr	Ala	Ile	His	Thr	Phe
			100					105					110		
Met	Ser	Met	Glu	Ser	Gly	Val	Phe	Leu	Cys	Met	Ala	Ile	Asp	Arg	Tyr
	115						120					125			
Val	Ala	Ile	Cys	Tyr	Pro	Leu	Gln	Tyr	Pro	Ser	Ile	Val	Thr	Glu	Ala
	130					135					140				
Phe	Val	Ile	Lys	Ala	Thr	Leu	Ser	Met	Met	Leu	Arg	Ser	Gly	Leu	Leu
145					150					155					160
Thr	Ile	Pro	Val	Pro	Val	Leu	Ala	Ala	Gln	Arg	Gln	Tyr	Cys	Ser	Arg
			165						170					175	
Asn	Glu	Ile	Asp	His	Cys	Leu	Cys	Ser	Asn	Leu	Gly	Val	Ile	Ser	Leu
		180						185					190		
Ala	Cys	Asp	Asp	Ile	Thr	Val	Asn	Arg	Asn	Cys	Gln	Leu	Thr	Leu	Ala
	195						200					205			
Trp	Leu	Ile	Leu	Gly	Ile	Asp	Met	Ile	Leu	Val	Cys	Val	Ser	Tyr	Ala
	210					215					220				
Leu	Ile	Ile	Arg	Ser	Val	Leu	Arg	Leu	Asn	Ser	Thr	Glu	Ala	Val	Ser
225					230					235					240
Lys	Ala	Leu	Ser	Thr	Cys	Ser	Ser	His	Leu	Ile	Leu	Ile	Met	Phe	Tyr
			245						250					255	
Tyr	Thr	Ala	Ile	Val	Ile	Leu	Ser	Val	Thr	His	Leu	Ala	Gly	Arg	Arg
		260						265					270		
Val	Pro	Leu	Ile	Pro	Val	Leu	Leu	Asn	Val	Met	His	Ile	Val	Ile	Pro
	275						280					285			
Pro	Ser	Leu	Asn	Pro	Met	Val	Tyr	Ala	Leu	Arg	Thr	Gln	Glu	Leu	Lys
	290					295					300				

Val	Gly	Phe	Arg	Lys	Val	Phe	Asp	Leu	Ser	His	Tyr	Val	Ser	Arg	Lys
305					310					315					320

<210> 1684  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1684

Met	Thr	Ala	Lys	Asn	Ser	Ser	Val	Thr	Glu	Phe	Ile	Leu	Ala	Gly	Leu
1				5					10					15	
Thr	Asn	Gln	Pro	Gly	Leu	Arg	Met	Pro	Leu	Phe	Phe	Leu	Phe	Leu	Gly
			20					25					30		
Phe	Tyr	Met	Val	Thr	Val	Val	Gly	Asn	Leu	Gly	Leu	Ile	Ser	Leu	Ile
		35					40					45			
Gly	Leu	Asn	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Phe	Asn
		50				55					60				
Leu	Ser	Val	Ile	Asp	Phe	Cys	Tyr	Ser	Ser	Thr	Ile	Ile	Pro	Lys	Met
65					70					75					80
Leu	Thr	Ser	Phe	Ile	Ser	Lys	Thr	Asn	Ile	Ile	Ser	His	Ser	Gly	Cys
			85						90					95	
Met	Thr	Gln	Leu	Phe	Phe	Phe	Cys	Phe	Phe	Val	Phe	Ser	Glu	Ser	Phe
		100						105					110		
Ile	Leu	Ser	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro
		115					120					125			
Leu	Met	Tyr	Thr	Val	Thr	Met	Ser	Pro	Gln	Val	Cys	Leu	Leu	Leu	Leu
		130				135					140				
Leu	Gly	Val	Tyr	Val	Met	Gly	Phe	Ser	Gly	Gly	Ile	Ala	His	Thr	Gly
145					150					155					160
Asn	Leu	Met	Asn	Leu	Thr	Phe	Cys	Ala	Asp	Asn	Leu	Ile	Asn	His	Phe
			165						170					175	
Met	Cys	Asp	Ile	Leu	Pro	Leu	Leu	Glu	Leu	Ser	Cys	Ser	Asn	Thr	Phe
		180						185					190		
Thr	Asn	Glu	Leu	Val	Val	Phe	Ile	Val	Val	Ala	Phe	Gly	Ile	Gly	Val
		195					200					205			
Pro	Ile	Val	Thr	Ile	Phe	Ile	Ser	Tyr	Ala	Leu	Ile	Leu	Ser	Ser	Ile
	210					215					220				
Leu	Tyr	Met	His	Ser	Thr	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ser	Ser	His	Leu	Ile	Val	Val	Cys	Leu	Phe	Phe	Gly	Ser	Gly	Ala	Phe
			245						250					255	
Met	Tyr	Leu	Lys	Pro	Pro	Ser	Ile	Leu	Pro	Leu	Asp	Gln	Gly	Lys	Val
		260						265					270		
Ser	Ser	Leu	Phe	Tyr	Thr	Ile	Val	Val	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Val	Ala	Leu	Arg	Lys	Thr	Leu
	290					295					300				
Gly	Lys	Arg	Ile	Leu	Ser										
305					310										

<210> 1685  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 1685

Met	Phe	Gln	Ile	Leu	Arg	Asp	Ser	Asn	Ser	Ser	Arg	Phe	Gln	Val	Ser
1				5					10					15	
Glu	Phe	Ile	Leu	Met	Gly	Phe	Pro	Gly	Ile	His	Ser	Trp	Gln	His	Trp
			20					25					30		
Leu	Ser	Leu	Pro	Leu	Ala	Leu	Leu	Tyr	Val	Leu	Ala	Leu	Ile	Ala	Asn
			35				40					45			
Ile	Leu	Ile	Val	Thr	Val	Ile	Tyr	Gln	Glu	Ala	Ser	Leu	His	Gln	Pro
	50					55					60				
Met	Tyr	His	Phe	Leu	Gly	Ile	Leu	Ala	Ile	Val	Asp	Val	Gly	Leu	Ala
65					70					75					80
Thr	Thr	Ile	Met	Pro	Lys	Ile	Leu	Ala	Ile	Leu	Trp	Phe	Asn	Asp	Asn
				85					90					95	
Asn	Ile	Ser	Leu	Pro	Glu	Cys	Phe	Ala	Gln	Met	Tyr	Ala	Ile	His	Cys
			100					105					110		
Phe	Val	Ala	Met	Glu	Ser	Gly	Ile	Phe	Val	Cys	Met	Ala	Ile	Asp	Arg
		115					120					125			
Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	Arg	Tyr	Ser	Ser	Ile	Val	Thr	Glu
	130					135					140				
Ser	Phe	Val	Val	Lys	Ala	Thr	Val	Ile	Met	Ala	Ile	Arg	Asn	Phe	Val
145					150					155					160
Ala	Pro	Met	Ser	Val	Pro	Val	Leu	Ala	Ala	Gln	Arg	Asn	Tyr	Cys	Phe
				165					170					175	
Gln	Asn	Lys	Ile	Glu	His	Cys	Leu	Cys	Ser	Asn	Leu	Gly	Val	Thr	Ser
			180				185						190		
Leu	Ala	Cys	Asp	Asp	Arg	Lys	Ile	Asn	Ser	Ile	Asn	Gln	Leu	Phe	Leu
		195					200					205			
Ala	Trp	Thr	Leu	Met	Gly	Ser	Asp	Leu	Ala	Leu	Ile	Met	Ile	Ser	Tyr
	210					215					220				
Ala	Leu	Ile	Leu	Arg	Ser	Val	Leu	Arg	Leu	Asn	Ser	Ala	Glu	Ala	Ala
225					230					235					240
Ser	Lys	Ala	Leu	Ser	Thr	Cys	Thr	Ser	His	Leu	Ile	Leu	Ile	Phe	Phe
				245					250					255	
Phe	Tyr	Thr	Val	Ile	Val	Val	Ile	Ser	Ile	Thr	His	Ser	Val	Gly	Ile
			260				265						270		
Lys	Ile	Pro	Leu	Ile	Pro	Val	Leu	Leu	Asn	Val	Leu	His	Asn	Val	Ile
		275					280					285			
Pro	Pro	Ala	Leu	Asn	Pro	Met	Val	Tyr	Ala	Leu	Lys	Asn	Lys	Glu	Leu
	290					295					300				
Lys	Gln	Gly	Leu	Tyr	Lys	Val	Leu	Arg	Leu	Asp	Val	Lys	Glu	Gly	
305					310					315					

<210> 1686

<211> 306

<212> PRT

<213> Mus musculus

<400> 1686

Met	Glu	Lys	Gly	Asn	Gln	Ser	Thr	Val	Asn	Lys	Phe	Phe	Leu	Ser	Gly
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Leu	Thr	Glu	Gln	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Leu	Leu	Phe	Leu
			20					25					30		
Gly	Ile	Tyr	Leu	Leu	Thr	Val	Leu	Gly	Asn	Leu	Gly	Met	Ile	Ile	Leu
		35				40						45			
Ile	Leu	Leu	Ser	Ser	Tyr	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				

Ser	Leu	Ser	Phe	Ile	Asp	Phe	Cys	Gln	Ser	Thr	Val	Ile	Thr	Pro	Lys
65					70					75					80
Met	Leu	Val	Lys	Phe	Val	Arg	Glu	Lys	Asn	Glu	Ile	Ser	Tyr	Pro	Glu
				85					90					95	
Cys	Ile	Thr	Gln	Leu	Cys	Phe	Phe	Val	Ile	Phe	Ala	Val	Ser	Glu	Ser
			100					105					110		
Tyr	Met	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Ser
		115					120					125			
Pro	Leu	Leu	Tyr	Ser	Ser	Ile	Met	Ser	Gln	His	Lys	Cys	Leu	Ser	Leu
	130					135					140				
Val	Leu	Gly	Val	Tyr	Ile	Leu	Gly	Ile	Val	Cys	Ala	Ser	Ala	His	Val
145					150					155					160
Gly	Cys	Ile	Phe	Arg	Ile	Asp	Phe	Cys	Lys	Ser	Asp	Leu	Ile	Asn	His
			165						170					175	
Tyr	Phe	Cys	Asp	Leu	Ile	Ser	Ile	Leu	Asn	Leu	Ser	Cys	Ser	Asn	Ile
			180					185					190		
Phe	Val	Asn	Asp	Leu	Val	Ile	Leu	Ile	Phe	Ser	Leu	Ile	Asn	Thr	Ile
		195					200					205			
Phe	Pro	Thr	Leu	Thr	Ile	Leu	Ser	Ser	Tyr	Ala	Phe	Ile	Ile	Ile	Ser
	210					215					220				
Ile	Leu	Arg	Ile	Lys	Ser	Thr	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Ile	Ser	Ala	Val	Ala	Ile	Phe	Tyr	Ile	Ser	Ala	Gly
			245						250					255	
Phe	Thr	Tyr	Leu	Asn	Pro	Ser	Ser	Ser	His	Ser	Met	Asp	Glu	Gly	Lys
			260					265					270		
Val	Ser	Ser	Ile	Phe	Tyr	Thr	Ile	Ile	Val	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Ile	Ala	Leu	Lys	Lys	Met
	290					295					300				
Ile	Glu														
305															

<210> 1687  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1687															
Met	Glu	Gln	Gly	Asn	His	Ser	Thr	Val	Lys	Lys	Phe	Phe	Leu	Ser	Gly
1				5					10					15	
Leu	Thr	Glu	Gln	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Leu	Leu	Phe	Leu
			20					25					30		
Gly	Ile	Tyr	Leu	Leu	Thr	Val	Leu	Gly	Asn	Leu	Gly	Met	Ile	Ile	Leu
	35						40					45			
Ile	Leu	Leu	Ser	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Ser	Leu	Ser	Phe	Ile	Asp	Leu	Cys	Gln	Ser	Thr	Val	Ile	Thr	Pro	Lys
65					70					75					80
Met	Leu	Val	Asn	Phe	Val	Arg	Glu	Lys	Asn	Glu	Ile	Ser	Tyr	Pro	Glu
			85						90					95	
Cys	Ile	Thr	Gln	Leu	Tyr	Phe	Phe	Leu	Leu	Phe	Ala	Ile	Ser	Glu	Cys
			100					105					110		
Tyr	Met	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Ser
		115					120					125			
Pro	Leu	Leu	Tyr	Ser	Ser	Ile	Met	Ser	Gln	His	Lys	Cys	Leu	Ser	Ile

130		135		140											
Val	Leu	Gly	Val	Tyr	Ile	Ile	Gly	Ile	Val	Cys	Ala	Ser	Ala	His	Val
145					150					155					160
Gly	Cys	Met	Phe	Arg	Ile	Asp	Phe	Cys	Arg	Tyr	Asp	Val	Ile	Asn	His
				165						170					175
Tyr	Phe	Cys	Asp	Leu	Ile	Ser	Ile	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Ala
			180					185						190	
Phe	Val	Asn	Glu	Leu	Met	Ile	Leu	Ile	Phe	Ser	Gly	Val	Asn	Ile	Ile
		195					200					205			
Ala	Pro	Thr	Leu	Thr	Ile	Leu	Ser	Ser	Tyr	Val	Phe	Ile	Ile	Met	Ser
	210					215					220				
Ile	Leu	Arg	Ile	Lys	Ser	Thr	Glu	Gly	Arg	Ser	Lys	Thr	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Ile	Ser	Ala	Val	Ala	Val	Phe	Tyr	Gly	Ser	Ala	Ala
			245					250						255	
Phe	Met	Tyr	Leu	Asn	Pro	Ser	Ser	Ser	Asn	Ser	Met	Asp	Glu	Gly	Lys
			260				265					270			
Val	Ser	Ser	Ile	Phe	Tyr	Thr	Ile	Ile	Val	Pro	Met	Leu	Asn	Pro	Leu
	275					280					285				
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Asn	Ile	Ala	Leu	Lys	Lys	Met
	290				295					300					
Ile	Gln	Arg	Arg												
305															

<210> 1688  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1688

Met	Ala	Glu	Gly	Asn	Phe	Ser	Val	Val	Thr	Glu	Phe	Ile	Leu	Thr	Gly
1				5					10					15	
Leu	Thr	Glu	Lys	Pro	Ala	Leu	Gln	Leu	Pro	Leu	Leu	Phe	Leu	Phe	Leu
			20					25					30		
Gly	Ile	Tyr	Val	Val	Thr	Val	Ile	Gly	Asn	Leu	Gly	Met	Val	Met	Leu
	35					40					45				
Ile	Leu	Phe	Ser	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50				55					60					
Asn	Leu	Ser	Phe	Val	Asp	Leu	Cys	Gln	Ser	Ser	Val	Ile	Met	Pro	Lys
65				70					75					80	
Met	Leu	Glu	Lys	Phe	Val	Met	Val	Lys	Ser	Val	Ile	Ser	Tyr	Ala	Glu
			85					90						95	
Cys	Met	Ala	Gln	Phe	Tyr	Leu	Phe	Asp	Val	Phe	Ala	Val	Ser	Glu	Cys
		100						105					110		
His	Met	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
	115					120					125				
Pro	Leu	Leu	Tyr	Asn	Val	Thr	Met	Ser	Tyr	Lys	Val	Cys	Ser	Trp	Met
	130					135					140				
Val	Val	Gly	Val	Tyr	Ser	Val	Gly	Leu	Ile	Cys	Ala	Thr	Gly	Glu	Thr
145				150						155					160
Val	Cys	Leu	Leu	Arg	Leu	Leu	Phe	Cys	Lys	Ala	Gly	Asp	Ile	Asn	His
			165					170						175	
Tyr	Phe	Cys	Asp	Leu	Leu	Pro	Leu	Leu	Glu	Gln	Ser	Cys	Ser	Asn	Thr
		180					185					190			
Phe	Ile	Asn	Glu	Ile	Leu	Gly	Leu	Ser	Phe	Ser	Ser	Phe	Asn	Ile	Thr
	195					200						205			



Val	Pro	Ala	Leu	Thr	Ile	Leu	Ser	Ser	Tyr	Ile	Phe	Ile	Ile	Ala	Ser
210						215					220				
Ile	Leu	Arg	Ile	Pro	Ser	Thr	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Ile	Leu	Ala	Val	Ala	Val	Phe	Phe	Gly	Ser	Leu	Ala
			245						250					255	
Phe	Met	Tyr	Leu	Gln	Pro	Ser	Ser	Val	Ser	Ser	Met	Asp	Gln	Gly	Lys
		260						265					270		
Val	Ser	Ser	Val	Phe	Tyr	Thr	Ile	Val	Val	Pro	Met	Leu	Asn	Pro	Leu
	275						280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Val	Ala	Phe	Tyr	Lys	Val
	290					295					300				
Val	Gly	Arg	Arg	Glu	Phe	Met									
305						310									

<210> 1689  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1689

Met	Glu	Lys	Ser	Asn	Asp	Ser	Ser	Glu	Tyr	Gly	Phe	Ile	Leu	Glu	Gly
1				5					10					15	
Phe	Ser	Asp	Arg	Pro	Arg	Leu	Glu	Met	Val	Leu	Phe	Ile	Val	Asn	Phe
		20						25					30		
Thr	Leu	Tyr	Ser	Val	Ala	Val	Leu	Gly	Asn	Ile	Thr	Ile	Ile	Leu	Val
		35					40					45			
Cys	Ile	Leu	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala
	50					55					60				
Asn	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Phe	Ser	Thr	Ser	Cys	Ile	Pro	Gln
65					70					75				80	
Met	Leu	Val	Asn	Leu	Trp	Gly	Pro	Asp	Lys	Thr	Ile	Ser	Tyr	Ala	Gly
			85					90						95	
Cys	Val	Val	Gln	Leu	Phe	Ser	Phe	Leu	Ser	Ile	Gly	Ser	Val	Glu	Cys
			100					105					110		
Ile	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Lys
		115					120					125			
Pro	Leu	His	Tyr	Met	Val	Ile	Met	His	Pro	Gln	Leu	Cys	Val	Arg	Leu
	130					135					140				
Met	Ala	Val	Ala	Trp	Gly	Val	Gly	Leu	Ala	Asn	Ala	Ile	Ile	Met	Ser
145					150					155				160	
Pro	Leu	Ala	Met	Thr	Leu	Ser	Arg	Cys	Gly	Arg	Arg	Arg	Ile	Asn	His
			165						170					175	
Phe	Leu	Cys	Glu	Met	Pro	Ala	Leu	Ile	Lys	Met	Ala	Cys	Val	Asp	Ala
			180					185					190		
Arg	Pro	Val	Glu	Met	Leu	Ser	Phe	Thr	Leu	Ala	Ile	Leu	Ile	Val	Leu
		195					200					205			
Leu	Pro	Leu	Thr	Leu	Ile	Leu	Val	Ser	Tyr	Gly	Tyr	Ile	Ala	Ala	Ala
	210					215					220				
Val	Leu	Arg	Ile	Lys	Ser	Ala	Ala	Gly	Arg	Trp	Lys	Ala	Phe	Asn	Thr
225					230					235				240	
Cys	Ser	Ser	His	Leu	Thr	Val	Val	Ser	Leu	Phe	Tyr	Gly	Ser	Ile	Ile
			245						250					255	
Tyr	Met	Tyr	Met	Gln	Pro	Gly	Asn	Ser	Ser	Ser	Gln	Asp	Gln	Gly	Lys
		260						265					270		
Phe	Leu	Thr	Leu	Phe	Tyr	Asn	Leu	Val	Thr	Pro	Met	Leu	Asn	Pro	Leu

	275		280		285
Ile	Tyr Thr Leu Arg Asn Lys	Glu Met Lys Gly Ala	Leu Lys Lys Val		
	290	295	300		
Cys Gly Arg His					
305					

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 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 1690															
Met	Gly	Ile	Leu	Lys	Asp	Gly	Asn	His	Thr	Ala	Val	Thr	Glu	Phe	Ile
1				5					10					15	
Leu	Leu	Gly	Leu	Thr	Asp	Asp	Pro	Val	Leu	Lys	Val	Val	Leu	Phe	Thr
			20					25					30		
Ile	Ile	Leu	Cys	Ile	Tyr	Leu	Val	Thr	Val	Ser	Gly	Asn	Leu	Ser	Thr
		35					40					45			
Ile	Leu	Leu	Ile	Arg	Val	Ser	Ser	Gln	Leu	His	His	Pro	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Ser	His	Leu	Ala	Ser	Val	Asp	Ile	Gly	Ile	Ser	Ser	Ser	Val
65				70						75					80
Thr	Pro	Asn	Met	Leu	Val	Asn	Phe	Leu	Leu	Glu	Arg	Ser	Thr	Ile	Ser
				85					90					95	
Tyr	Leu	Gly	Cys	Gly	Ile	Gln	Leu	Gly	Ser	Gly	Ala	Phe	Phe	Gly	Ser
			100					105						110	
Thr	Glu	Ser	Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	His	Phe	Met	Ala
			115				120						125		
Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Met	Ser	Thr	Gln	Val	Cys
	130					135					140				
Ile	Gln	Leu	Leu	Val	Gly	Ser	Tyr	Ile	Gly	Gly	Phe	Leu	Asn	Ala	Ser
145					150					155					160
Ser	Phe	Ile	Leu	Ser	Phe	Phe	Ser	Phe	Leu	Phe	Cys	Gly	Pro	Asn	Lys
				165					170					175	
Val	Asn	His	Phe	Phe	Cys	Asp	Phe	Thr	Pro	Leu	Val	Glu	Leu	Ser	Cys
			180					185					190		
Ser	Asp	Asn	Ser	Val	Leu	Leu	Ile	Leu	Asp	Ser	Phe	Ser	Ala	Gly	Ser
	195						200					205			
Ile	Ile	Val	Ile	Thr	Val	Leu	Val	Ile	Ala	Ile	Ser	Tyr	Thr	Tyr	Ile
	210					215					220				
Leu	Ile	Thr	Ile	Leu	Lys	Met	His	Ser	Thr	Glu	Gly	Arg	His	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Thr	Ser	His	Leu	Thr	Ala	Val	Thr	Val	Phe	Tyr	Gly
				245					250					255	
Thr	Val	Thr	Phe	Ile	Tyr	Val	Met	Pro	Lys	Ser	Ser	Tyr	Ser	Thr	Asp
			260				265						270		
Gln	Asn	Lys	Val	Leu	Ser	Val	Phe	Tyr	Met	Ile	Ala	Ile	Ala	Ile	Pro
	275						280					285			
Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Asn	Glu	Ile	Lys	Asn
	290					295					300				
Ala	Leu	Lys	Arg	Gln	Leu	Ser	Lys	Lys	Thr	Phe	Ser				
305					310					315					

<210> 1691  
 <211> 314

<212> PRT

<213> Mus musculus

<400> 1691

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Met Leu Met Gly Gly Ala Asn Leu Ser Val Val Ser Glu Phe Val Phe
 1          5          10          15
Leu Gly Leu Thr Asn Ser Trp Asp Ile Gln Leu Leu Leu Phe Val Phe
          20          25          30
Ser Ser Val Phe Tyr Val Ala Ser Met Met Gly Asn Ser Leu Ile Ile
          35          40          45
Phe Thr Val Ala Ser Asp Pro His Leu His Thr Pro Met Tyr Phe Leu
          50          55          60
Leu Ala Asn Leu Ser Phe Ile Asp Leu Gly Val Ser Ser Val Thr Ser
65          70          75          80
Pro Lys Met Ile Tyr Asp Leu Phe Arg Lys His Lys Val Ile Ser Phe
          85          90          95
Thr Gly Cys Val Ile Gln Ile Phe Ser Ile His Val Ile Gly Gly Val
          100          105          110
Glu Met Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Val Ala Ile
          115          120          125
Cys Lys Pro Leu His Tyr Leu Thr Ile Leu Ser Pro Arg Met Cys Leu
          130          135          140
Phe Phe Val Val Ile Ala Trp Ile Val Gly Leu Ile His Ser Leu Ala
145          150          155          160
Gln Leu Val Phe Val Ile Asn Leu Pro Phe Cys Gly Pro Asn Val Leu
          165          170          175
Asp Ser Phe Tyr Cys Asp Leu Pro Arg Phe Ile Lys Leu Ala Cys Val
          180          185          190
Asp Thr His Lys Leu Glu Phe Met Val Thr Ala Asn Ser Gly Phe Ile
          195          200          205
Ser Val Gly Ser Phe Phe Ile Leu Ile Val Ser Tyr Ile Val Ile Ile
          210          215          220
Ile Ser Val Gln Lys His Ser Ser Gly Gly Phe Ser Lys Ala Leu Ser
225          230          235          240
Thr Leu Ser Ala His Ile Ser Val Val Val Leu Phe Phe Gly Pro Leu
          245          250          255
Ile Phe Val Tyr Thr Trp Pro Thr Pro Ser Val His Leu Asp Lys Phe
          260          265          270
Leu Ala Ile Phe Asp Ala Val Ile Thr Pro Phe Leu Asn Pro Val Ile
          275          280          285
Tyr Thr Phe Arg Asn Gln Glu Met Lys Met Ala Met Lys Arg Val Phe
          290          295          300
Lys Gln Leu Leu Ser Tyr Arg Lys Ile Ser
305          310
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<210> 1692

<211> 314

<212> PRT

<213> Mus musculus

<400> 1692

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Met Ala Gly Arg Asn Tyr Thr Phe Val Thr Glu Phe Phe Leu Thr Ala
 1          5          10          15
Phe Thr Glu His Pro Glu Trp Gly Leu Pro Leu Phe Leu Leu Phe Leu
          20          25          30
Ser Phe Tyr Leu Ala Thr Leu Leu Gly Asn Thr Gly Met Ile Ile Leu
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Gln	Met	Val	Phe	Phe	Ile	Gly	Leu	Gly	Ser	Ala	Asp	Cys	Phe	Leu	Leu
	115						120					125			
Ala	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro	Leu	Gln
	130					135					140				
Tyr	Pro	Leu	Ile	Met	Thr	Val	Thr	Leu	Cys	Val	Arg	Leu	Val	Leu	Ala
145					150					155					160
Ser	Val	Val	Ile	Gly	Leu	Val	Leu	Ser	Leu	Gln	Leu	Val	Val	Phe	Ile
			165						170					175	
Phe	Cys	Leu	Pro	Phe	Cys	Gln	Asp	Arg	Gly	Ile	Glu	His	Phe	Phe	Cys
		180						185					190		
Asp	Val	Pro	Pro	Val	Met	Arg	Leu	Val	Cys	Ala	Thr	Ser	His	Ile	His
	195						200					205			
Glu	Leu	Ser	Val	Leu	Val	Ala	Ala	Ala	Leu	Ala	Ile	Ala	Val	Pro	Phe
	210					215					220				
Phe	Phe	Ile	Ala	Thr	Thr	Tyr	Ala	Leu	Ile	Val	Ala	Ala	Val	Leu	Lys
225					230					235					240
Leu	His	Ser	Ala	Ala	Gly	Arg	His	Arg	Ala	Phe	Asn	Thr	Cys	Ser	Ser
			245						250					255	
His	Leu	Thr	Val	Val	Leu	Leu	Gln	Tyr	Gly	Cys	Cys	Ala	Phe	Met	Tyr
		260						265					270		
Leu	Arg	Pro	Asn	Ser	Ser	Tyr	His	Pro	Lys	Lys	Asp	Gln	Phe	Ile	Ser
	275						280					285			
Leu	Val	Tyr	Thr	Leu	Gly	Thr	Pro	Phe	Leu	Asn	Pro	Leu	Ile	Tyr	Thr
	290					295					300				
Leu	Arg	Asn	Asn	Glu	Met	Lys	Gly	Ala	Ile	Glu	Lys	Val	Leu	Thr	Arg
305				310						315					320
Asn	Tyr	Phe	Ser	Gln	Lys	Asn	Ile	Gln							
				325											

<210> 1694  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1694

Met	Ala	Phe	Leu	Glu	Asp	Gly	Asn	His	Thr	Ala	Val	Thr	Gly	Phe	Ile
1			5						10					15	
Leu	Leu	Gly	Leu	Thr	Asp	Asp	Pro	Val	Leu	Arg	Val	Val	Leu	Phe	Val
		20					25						30		
Ile	Ile	Leu	Cys	Ile	Tyr	Leu	Val	Thr	Val	Ser	Gly	Asn	Leu	Ser	Thr
	35					40						45			
Ile	Leu	Leu	Ile	Arg	Val	Ser	Gln	Leu	His	His	Pro	Met	Tyr	Phe	
	50					55				60					
Phe	Leu	Ser	His	Leu	Ala	Ser	Ala	Asp	Ile	Gly	Tyr	Ser	Ser	Ser	Val
65				70					75						80
Thr	Pro	Asn	Met	Leu	Val	Asn	Phe	Leu	Val	Glu	Arg	Asn	Thr	Ile	Ser
			85						90					95	
Tyr	Leu	Gly	Cys	Gly	Ile	Gln	Leu	Gly	Ser	Ala	Val	Phe	Phe	Gly	Thr
		100						105					110		
Val	Glu	Cys	Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Phe	Ile	Ala
		115				120						125			
Ile	Cys	Ser	Pro	Leu	Leu	Tyr	Ser	Asn	Lys	Met	Ser	Thr	Gln	Val	Cys
	130					135					140				
Val	Gln	Leu	Leu	Val	Gly	Ser	Tyr	Ile	Gly	Gly	Phe	Leu	Asn	Ala	Ser
145					150					155					160
Ser	Phe	Thr	Leu	Ser	Phe	Phe	Ser	Leu	Val	Phe	Cys	Gly	Pro	Asn	Arg



Phe	Ser	Thr	Cys	Thr	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Tyr	Tyr	Gly
				245					250					255	
Thr	Ile	Thr	Phe	Ile	Tyr	Val	Met	Pro	Lys	Ser	Ser	Phe	Ser	Thr	Asp
			260					265					270		
Gln	Asn	Lys	Val	Val	Ser	Val	Phe	Tyr	Met	Val	Met	Ile	Pro	Met	Leu
		275					280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Asn	Glu	Ile	Lys	Gly	Ala	Ile
	290					295					300				
Lys	Arg	Gln	Leu	Gly	Lys	Lys	Met	Ser	Cys						
305					310										

<210> 1696  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1696

Met	Ala	Phe	Leu	Gln	Asp	Gly	Asn	His	Thr	Ala	Val	Thr	Glu	Phe	Ile
1				5					10					15	
Leu	Leu	Gly	Leu	Thr	Asp	Gly	Pro	Ile	Leu	Arg	Val	Ile	Leu	Phe	Thr
			20					25					30		
Ile	Ile	Leu	Cys	Ile	Tyr	Leu	Val	Thr	Val	Ser	Gly	Asn	Leu	Ser	Thr
		35					40					45			
Ile	Leu	Leu	Ile	Arg	Val	Ser	Ser	Gln	Leu	His	His	Pro	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Ser	His	Leu	Ala	Ser	Val	Asp	Met	Gly	Leu	Ser	Ser	Ser	Val
65					70					75					80
Thr	Pro	Asn	Met	Leu	Val	Asn	Phe	Leu	Val	Lys	Gln	Asn	Thr	Ile	Ser
			85						90					95	
Tyr	Ile	Ala	Cys	Ser	Ile	Gln	Phe	Gly	Leu	Ala	Ala	Phe	Phe	Gly	Thr
			100					105					110		
Val	Glu	Cys	Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala
		115					120					125			
Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Ile	Ser	Thr	Glu	Ser	Cys
	130					135					140				
Ile	Gln	Leu	Val	Val	Gly	Ser	Tyr	Ile	Gly	Gly	Phe	Leu	Asn	Ala	Ser
145					150					155					160
Ser	Phe	Ile	Leu	Ser	Phe	Phe	Ser	Phe	Ile	Phe	Cys	Gly	Pro	Asn	Arg
			165						170					175	
Ile	Asn	His	Phe	Tyr	Cys	Asp	Leu	Ala	Pro	Leu	Val	Glu	Leu	Ser	Cys
			180					185					190		
Ser	Asp	Val	Ser	Val	Ser	Val	Val	Val	Thr	Ser	Phe	Ser	Ala	Gly	Ser
	195						200					205			
Val	Thr	Val	Ile	Thr	Val	Phe	Val	Ile	Ala	Val	Ser	Tyr	Ser	Tyr	Ile
	210					215					220				
Leu	Ile	Thr	Ile	Leu	Lys	Met	His	Ser	Thr	Glu	Gly	Arg	His	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Thr	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Tyr	Tyr	Gly
			245						250					255	
Thr	Ile	Thr	Phe	Ile	Tyr	Val	Met	Pro	Lys	Ser	Ser	Tyr	Ser	Thr	Asp
			260					265					270		
Gln	Asn	Lys	Val	Val	Ser	Val	Phe	Tyr	Met	Val	Val	Ile	Pro	Met	Leu
		275					280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Asn	Glu	Ile	Lys	Gly	Ala	Ile
	290					295					300				
Lys	Arg	Gln	Leu	Gly	Lys	Lys	Met	Phe	Cys						

305

310

&lt;210&gt; 1697

&lt;211&gt; 310

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 1697

Met	Glu	Pro	Gly	Asn	His	Thr	Ala	Val	Thr	Lys	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Thr	Asp	Asp	Pro	Thr	Leu	Cys	Val	Ile	Phe	Phe	Val	Phe	Phe	Leu
		20						25					30		
Gly	Ile	Tyr	Ile	Val	Thr	Leu	Val	Gly	Asn	Ile	Ser	Ile	Ile	Asn	Leu
		35					40					45			
Val	Arg	Ser	Cys	Pro	Gln	Leu	Gln	Thr	Pro	Met	Tyr	Met	Phe	Leu	Ser
	50					55					60				
His	Leu	Ala	Phe	Val	Asp	Ile	Gly	Tyr	Ser	Thr	Ser	Val	Thr	Pro	Ile
65					70					75					80
Met	Leu	Ile	Gly	Phe	Ile	Val	His	Glu	Thr	Gly	Leu	Pro	Val	His	Ala
			85						90					95	
Cys	Glu	Ala	Gln	Leu	Cys	Ser	Val	Val	Thr	Phe	Gly	Thr	Ala	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Ser
		115					120					125			
Pro	Leu	Leu	Tyr	Ser	Thr	His	Met	Ser	Ser	Gln	Ile	Cys	Leu	Leu	Leu
	130					135					140				
Val	Gly	Ala	Ser	Tyr	Val	Gly	Gly	Cys	Val	Asn	Ala	Trp	Thr	Phe	Thr
145					150					155					160
Gly	Cys	Leu	Leu	Ser	Leu	Ser	Phe	Cys	Gly	Pro	Asn	Lys	Ile	Asp	His
			165						170					175	
Phe	Phe	Cys	Asp	Phe	Ser	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Val
		180					185					190			
Ser	Ile	Ile	Gly	Ile	Ile	Pro	Ser	Ile	Ser	Ala	Gly	Ser	Ile	Ile	Val
	195					200					205				
Val	Thr	Val	Phe	Val	Ile	Ser	Val	Ser	Tyr	Ile	Tyr	Ile	Leu	Ile	Thr
	210					215					220				
Ile	Leu	Lys	Met	Arg	Ser	Thr	Glu	Gly	Arg	His	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Thr	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Tyr	Tyr	Gly	Thr	Ile	Thr
			245						250					255	
Phe	Ile	Tyr	Val	Met	Pro	Lys	Ser	Ser	Tyr	Ser	Thr	Lys	Gln	Asn	Arg
		260					265						270		
Val	Val	Ser	Leu	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Val	Lys	Glu	Ala	Leu	Arg	Lys	Ala
	290					295					300				
Thr	Leu	Arg	Ile	Tyr	Ser										
305					310										

&lt;210&gt; 1698

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 1698



Met	Ala	Phe	Leu	Gln	Asp	Gly	Asn	His	Thr	Ala	Val	Thr	Glu	Phe	Ile
1				5					10					15	
Leu	Leu	Gly	Leu	Thr	Asp	Asp	Pro	Val	Leu	Arg	Val	Val	Leu	Phe	Thr
		20						25					30		
Ile	Ile	Leu	Cys	Ile	Tyr	Leu	Val	Thr	Val	Phe	Gly	Asn	Leu	Ser	Thr
	35						40					45			
Ile	Leu	Leu	Ile	Arg	Val	Ser	Ser	Gln	Leu	His	His	Pro	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Ser	His	Leu	Ala	Ser	Val	Asp	Ile	Gly	Ile	Ser	Ser	Ser	Val
65				70						75					80
Thr	Pro	Ser	Met	Leu	Val	Asn	Phe	Leu	Leu	Glu	Arg	Ser	Thr	Ile	Ser
			85						90					95	
Tyr	Leu	Gly	Cys	Gly	Ile	Gln	Leu	Gly	Ser	Ala	Asp	Phe	Ile	Ala	Ser
		100						105					110		
Val	Glu	Cys	Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Phe	Met	Ala
		115					120					125			
Val	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Met	Ser	Thr	Gln	Val	Cys
	130					135					140				
Val	Gln	Leu	Val	Val	Gly	Ser	Tyr	Ile	Gly	Gly	Phe	Leu	Asn	Ala	Ser
145				150						155					160
Leu	Ile	Val	Thr	Val	Tyr	Phe	Phe	Ser	Phe	Leu	Phe	Cys	Gly	Pro	Asn
			165						170					175	
Arg	Ile	Asp	His	Phe	Phe	Cys	Asp	Phe	Ala	Pro	Leu	Ala	Glu	Leu	Ser
		180						185					190		
Cys	Ser	Asp	Val	Ser	Val	Ser	Val	Leu	Ile	Ile	Ser	Phe	Ser	Ala	Gly
		195					200					205			
Ser	Val	Thr	Met	Ile	Thr	Val	Phe	Val	Ile	Val	Ile	Ser	Tyr	Ser	Tyr
	210					215					220				
Ile	Leu	Ile	Thr	Ile	Leu	Lys	Met	His	Ser	Thr	Glu	Gly	Arg	His	Lys
225				230						235					240
Ala	Phe	Ser	Thr	Cys	Thr	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Tyr	Tyr
			245						250					255	
Gly	Thr	Ile	Thr	Phe	Ile	Tyr	Val	Met	Pro	Lys	Ser	Ser	Phe	Ser	Thr
		260						265					270		
Asp	Gln	Asn	Lys	Val	Val	Ser	Val	Phe	Tyr	Met	Val	Met	Ile	Pro	Met
	275						280					285			
Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Ser	Asn	Asn	Glu	Ile	Lys	Gly	Ala
	290					295					300				
Leu	Lys	Arg	Gln	Leu	Gly	Met	Lys	Thr	Leu	Ser					
305				310						315					

<210> 1699  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1699  

Met	Ala	Phe	Gln	Glu	Asp	Gly	Asn	His	Thr	Ala	Val	Thr	Glu	Phe	Val
1				5					10					15	
Leu	Phe	Gly	Leu	Thr	Asp	Asp	Pro	Val	Leu	Arg	Val	Ile	Leu	Phe	Ile
		20						25					30		
Ile	Phe	Leu	Cys	Ile	Tyr	Leu	Val	Thr	Val	Ser	Gly	Asn	Leu	Ser	Thr
	35						40					45			
Ile	Leu	Leu	Ile	Arg	Val	Ser	Ser	Gln	Leu	His	His	Pro	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Ser	His	Leu	Ala	Phe	Ala	Asp	Ile	Gly	Tyr	Ser	Ser	Ser	Val

65	70	75	80
Thr Pro Asn Met	Leu Val Asn Phe Leu Val	Glu Arg His Thr Ile Ser	
	85	90	95
Tyr Ile Gly Cys	Ala Ile Gln Leu Gly Ser Val Val Phe Phe Gly Ser		
	100	105	110
Ser Glu Cys Phe	Ile Leu Ala Ala Met Ala Tyr Asp Arg Phe Met Ala		
	115	120	125
Ile Cys Asn Pro	Leu Leu Tyr Ser Thr Lys Met Ser Thr Gln Val Cys		
	130	135	140
Val Gln Leu Leu Leu	Ile Ala Tyr Ile Gly Gly Phe Leu Asn Thr Trp		
145	150	155	160
Ser Phe Thr Ile	Cys Phe Tyr Ser Leu Val Phe Cys Gly Pro Asn Gly		
	165	170	175
Val Asn His Phe	Phe Cys Asp Phe Ala Pro Leu Ile Glu Leu Ser Cys		
	180	185	190
Ser Asp Val Ser	Val Pro Ala Thr Val Pro Ser Phe Thr Ala Gly Ser		
	195	200	205
Ile Ile Val Val	Thr Val Ile Val Ile Ala Ile Ser Tyr Ile Tyr Ile		
	210	215	220
Leu Ile Thr Ile	Leu Lys Met His Ser Thr Glu Gly Arg Gln Lys Ala		
225	230	235	240
Phe Ser Thr Cys	Thr Ser His Leu Thr Ala Val Thr Leu Phe Tyr Gly		
	245	250	255
Thr Ile Thr Phe	Ile Tyr Val Met Pro Lys Ser Ser Phe Ser Thr Asp		
	260	265	270
Gln Asn Lys Val	Val Ser Val Phe Tyr Met Val Val Ile Pro Met Leu		
	275	280	285
Asn Pro Leu Ile	Tyr Ser Leu Arg Asn Asn Glu Ile Lys Gly Ala Leu		
	290	295	300
Lys Arg Gln Ile	Gly Arg Lys Ile Phe Ser		
305	310		

<210> 1700  
 <211> 323  
 <212> PRT  
 <213> Mus musculus

<400> 1700

Met Ala Phe Leu Glu Asp Gly Asn His Thr Ala Val Thr Glu Phe Ile	
1 5 10 15	
Leu Val Gly Leu Thr Asp Asp Pro Val Leu Lys Val Ile Leu Phe Thr	
20 25 30	
Ile Ile Leu Cys Ile Tyr Leu Val Thr Val Ser Gly Asn Leu Ser Thr	
35 40 45	
Ile Leu Leu Ile Arg Val Ser Ser Gln Leu His His Pro Met Tyr Phe	
50 55 60	
Phe Leu Ser His Leu Ala Ser Val Asp Leu Gly Tyr Ser Ser Ser Val	
65 70 75 80	
Thr Pro Asn Met Leu Ile Asn Phe Leu Ala Glu Asn Asn Thr Ile Ser	
85 90 95	
Tyr Ile Gly Cys Ser Ile Gln Phe Gly Ser Ala Thr Phe Phe Gly Val	
100 105 110	
Leu Glu Cys Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala	
115 120 125	
Ile Cys Asn Pro Leu Leu Tyr Ser Ile Lys Met Ser Thr Gln Val Cys	
130 135 140	

Val	Lys	Leu	Val	Val	Gly	Ser	Tyr	Ile	Gly	Ser	Ser	Leu	Asn	Ala	Ser
145					150					155					160
Phe	Val	Thr	Val	Ser	Ile	Phe	Asn	Leu	Leu	Phe	Cys	Gly	Pro	Asn	Lys
				165					170						175
Ile	Asn	His	Phe	Cys	Asp	Phe	Asp	Pro	Leu	Ile	Glu	Leu	Ser	Cys	
			180				185					190			
Ser	Asp	Val	Ser	Val	Pro	Val	Ala	Val	Thr	Ser	Cys	Ser	Ala	Gly	Leu
		195				200						205			
Ile	Thr	Met	Ile	Thr	Val	Phe	Val	Ile	Ala	Val	Ser	Tyr	Thr	Tyr	Ile
	210					215					220				
Leu	Ile	Thr	Val	Leu	Lys	Met	Arg	Ser	Thr	Glu	Gly	Arg	His	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Thr	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Phe	Tyr	Gly
				245					250						255
Thr	Val	Thr	Phe	Ile	Tyr	Val	Met	Pro	Lys	Ser	Asn	Tyr	Ser	Thr	Asp
			260				265						270		
Gln	Asn	Lys	Val	Val	Ser	Val	Phe	Tyr	Met	Val	Val	Ile	Pro	Met	Leu
		275					280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Asn	Glu	Ile	Lys	Gly	Ala	Leu
	290					295					300				
Lys	Arg	Gln	Leu	Gly	Lys	Lys	Ile	Phe	Ser	Gln	Ser	Asn	Ile	Leu	Phe
305					310					315					320
Cys	Lys	Ser													

<210> 1701  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1701

Met	Ala	Phe	Leu	Asp	Asn	Gly	Asn	His	Thr	Ala	Val	Thr	Glu	Phe	Ile
1				5					10					15	
Leu	Leu	Gly	Leu	Thr	Asp	Asp	Pro	Phe	Leu	Arg	Ile	Val	Leu	Phe	Ser
		20					25						30		
Ile	Ile	Leu	Cys	Ile	Tyr	Leu	Val	Thr	Val	Phe	Gly	Asn	Leu	Ser	Thr
		35				40						45			
Ile	Leu	Leu	Ile	Arg	Val	Ser	Gln	Leu	His	His	Pro	Met	Tyr	Phe	
	50				55					60					
Phe	Leu	Ser	His	Leu	Ala	Thr	Val	Asp	Leu	Gly	Ile	Ser	Ser	Ser	Val
65				70					75						80
Thr	Pro	Ser	Met	Leu	Val	Asn	Phe	Leu	Ala	Glu	Arg	Ser	Thr	Ile	Ser
			85					90						95	
Tyr	Leu	Gly	Cys	Gly	Ile	Gln	Leu	Ser	Ser	Ala	Ala	Leu	Phe	Gly	Thr
		100					105						110		
Leu	Glu	Cys	Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Met	Ala
		115				120						125			
Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Leu	Ser	Thr	Arg	Phe	Cys
	130					135					140				
Ile	Gln	Leu	Val	Val	Gly	Ser	Tyr	Ile	Gly	Ala	Phe	Leu	Asn	Asp	Ser
145					150					155					160
Cys	Tyr	Ile	Leu	Ser	Phe	Ala	Phe	Phe	Leu	Phe	Cys	Gly	Pro	Asn	Lys
			165					170						175	
Val	Asp	His	Phe	Phe	Cys	Asp	Leu	Ser	Pro	Met	Met	Glu	Leu	Ser	Cys
		180					185						190		
Ser	Asp	Ala	Ser	Val	Ser	Gly	Val	Val	Ile	Ser	Phe	Thr	Ala	Gly	Ser

	195		200		205										
Ile	Thr	Met	Thr	Thr	Leu	Ile	Val	Ile	Val	Ile	Ser	Tyr	Phe	Tyr	Ile
	210					215					220				
Leu	Ile	Thr	Ile	Leu	Lys	Met	Arg	Ser	Thr	Glu	Gly	Arg	Gln	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Thr	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Tyr	Tyr	Gly
			245						250					255	
Thr	Ile	Ile	Phe	Ile	Tyr	Val	Met	Pro	Lys	Ser	Thr	Tyr	Ser	Arg	Asp
			260					265					270		
Gln	Asn	Lys	Val	Val	Ser	Leu	Phe	Tyr	Met	Val	Val	Ile	Pro	Met	Leu
	275						280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Asn	Glu	Ile	Lys	Gly	Ala	Leu
	290					295					300				
Lys	Lys	Gln	Phe	Tyr	Arg	Lys	Thr	Leu	Leu						
305						310									

<210> 1702  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1702

Met	Gly	Tyr	Thr	Asn	Leu	Ser	Tyr	Leu	Asn	Pro	Gly	Thr	Val	Ile	Leu
1				5					10					15	
Ile	Gly	Ile	Pro	Gly	Leu	Glu	His	Val	Gln	Phe	Trp	Ile	Gly	Phe	Pro
			20					25					30		
Phe	Phe	Val	Val	Cys	Leu	Val	Ala	Leu	Leu	Gly	Asn	Leu	Phe	Leu	Leu
		35					40					45			
Ile	Ile	Ile	Pro	Thr	Glu	Arg	Ser	Leu	His	Gln	Pro	Met	Tyr	Ile	Phe
	50					55					60				
Leu	Ala	Val	Leu	Ala	Ala	Thr	Asp	Leu	Gly	Leu	Cys	Leu	Ala	Ile	Ala
65					70					75					80
Pro	Lys	Met	Leu	Ala	Ile	Phe	Trp	Phe	Gly	Ser	Cys	Ser	Met	Ala	Phe
				85					90					95	
Asp	Ala	Cys	Leu	Thr	Gln	Leu	Phe	Phe	Ile	His	Ala	Leu	Gln	Gly	Met
			100					105					110		
Glu	Ser	Gly	Val	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Cys	Asp	Pro	Leu	Arg	His	Thr	Ala	Val	Leu	Thr	Pro	Leu	Phe	Leu	Leu
	130					135					140				
Arg	Val	Val	Leu	Val	Val	Ala	Ile	Arg	Ala	Thr	Val	Leu	Val	Gly	Val
145					150					155					160
Leu	Pro	Ile	Leu	Leu	Lys	Arg	Leu	Gln	Trp	Phe	His	Ser	Val	Val	Ile
				165					170					175	
Val	His	Ser	Tyr	Cys	Glu	His	Met	Ala	Val	Val	Lys	Leu	Ala	Ala	Glu
			180					185					190		
Asp	Val	Arg	Ile	Asn	Lys	Ser	Tyr	Gly	Leu	Phe	Val	Ala	Phe	Ala	Ile
		195					200					205			
Leu	Gly	Phe	Asp	Met	Ile	Phe	Val	Phe	Ile	Ser	Tyr	Ile	Leu	Ile	Phe
	210					215					220				
Arg	Ala	Val	Phe	Arg	Leu	Pro	Gln	Lys	Glu	Ala	Arg	Ser	Lys	Ala	Phe
225					230					235					240
Asn	Thr	Cys	Thr	Ala	His	Ile	Val	Val	Phe	Leu	Glu	Phe	Tyr	Ile	Leu
				245					250					255	
Ala	Phe	Phe	Ser	Phe	Phe	Ser	His	Arg	Phe	Gly	His	Val	Ser	Pro	Tyr
			260					265					270		

Val	His	Ile	Leu	Leu	Ser	Thr	Ile	Tyr	Leu	Leu	Leu	Pro	Pro	Ala	Leu
	275						280					285			
Asn	Pro	Ile	Val	Tyr	Gly	Val	Lys	Thr	Lys	Glu	Ile	Arg	Lys	Trp	Val
	290					295					300				
Val	Gln	Ile	Phe	Val	Leu	Lys	Ser	Asn	Thr	Gln					
305					310					315					

<210> 1703  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1703

Met	Lys	Asn	Ile	Thr	Glu	Ala	Thr	Phe	Phe	Val	Leu	Lys	Gly	Leu	Thr
1				5					10					15	
Asp	Asn	Asn	Glu	Leu	Gln	Ile	Ile	Leu	Phe	Phe	Leu	Phe	Leu	Ala	Ile
			20					25					30		
Tyr	Leu	Phe	Thr	Leu	Ile	Gly	Asn	Val	Gly	Leu	Ile	Ile	Leu	Val	Val
		35				40						45			
Gly	Asp	Pro	Gln	Leu	His	Asn	Pro	Met	Tyr	Cys	Phe	Leu	Ser	Ala	Leu
	50					55					60				
Ser	Phe	Val	Asp	Ala	Cys	Tyr	Ser	Ser	Asp	Ile	Thr	Pro	Asn	Met	Leu
65					70					75					80
Val	Gly	Phe	Met	Ser	Lys	Ser	Lys	Ile	Ile	Ser	Phe	Tyr	Gly	Cys	Ala
				85					90					95	
Thr	Gln	Met	Phe	Leu	Ala	Val	Thr	Phe	Gly	Thr	Thr	Glu	Cys	Phe	Leu
			100					105					110		
Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	His	Asp	Pro	Leu
		115					120					125			
Leu	Tyr	Ala	Val	Ser	Met	Ser	Pro	Arg	Val	Tyr	Leu	Pro	Leu	Ile	Ile
	130					135					140				
Ala	Ser	Tyr	Ala	Gly	Gly	Ile	Val	His	Ala	Ile	Ile	His	Thr	Val	Ala
145					150					155					160
Thr	Phe	Ser	Leu	Ser	Phe	Cys	Gln	Ser	Asn	Glu	Val	Lys	His	Ile	Phe
				165					170					175	
Cys	Asp	Ile	Pro	Pro	Leu	Leu	Ala	Ile	Ser	Cys	Ser	Glu	Thr	Tyr	Val
		180						185					190		
Asn	Glu	Leu	Leu	Phe	Phe	Phe	Val	Ser	Phe	Ile	Glu	Leu	Val	Thr	
	195					200					205				
Ile	Leu	Ile	Ile	Leu	Phe	Ser	Tyr	Ala	Phe	Ile	Leu	Leu	Ser	Ile	Leu
	210					215					220				
Lys	Met	Asn	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Val	Phe	Ser	Thr	Cys	Gly
225					230					235					240
Ser	His	Leu	Thr	Ala	Val	Ser	Ile	Cys	Tyr	Gly	Thr	Ser	Leu	Phe	Met
				245					250					255	
Tyr	Val	Arg	Pro	Ser	Ser	Asn	Tyr	Ser	Leu	Glu	His	Asp	Met	Ile	Val
			260				265						270		
Ser	Thr	Phe	Tyr	Thr	Ile	Gly	Ile	Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr
		275				280						285			
Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Ile	Lys	Arg	Val	Leu	Arg
	290					295					300				
Lys	Asn	Phe	Ile												
305															

<210> 1704

<211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 1704

Met	Lys	Asn	Gln	Ser	Val	Glu	Ile	Ile	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Asp	Asp	Pro	Gln	Leu	Gln	Ile	Pro	Ile	Phe	Leu	Phe	Leu	Phe	Phe	Asn
			20					25					30		
Tyr	Ile	Leu	Ser	Leu	Met	Gly	Asn	Leu	Val	Ile	Ile	Leu	Leu	Thr	Leu
		35					40					45			
Leu	Asp	Pro	Arg	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe
	50					55					60				
Ser	Phe	Leu	Glu	Ile	Ala	Phe	Thr	Thr	Ala	Cys	Ile	Pro	Arg	Phe	Leu
65					70					75					80
Met	Ser	Ile	Leu	Thr	Gly	Asp	Arg	Thr	Ile	Ser	Tyr	Asn	Ala	Cys	Ala
				85					90					95	
Ala	Gln	Leu	Phe	Phe	Phe	Phe	Leu	Ser	Leu	Ile	Thr	Glu	Phe	Tyr	Leu
			100					105					110		
Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	Arg	Pro	Leu
		115					120					125			
His	Tyr	Pro	Ile	Ile	Met	Asn	Ser	Lys	Val	Cys	His	Leu	Leu	Val	Leu
	130					135					140				
Ser	Ser	Trp	Val	Thr	Gly	Phe	Phe	Val	Ile	Phe	Pro	Pro	Leu	Leu	Leu
145					150					155					160
Gly	Leu	Lys	Leu	Asp	Phe	Cys	Ala	Ser	Lys	Thr	Ile	Asp	His	Phe	Leu
			165						170					175	
Cys	Asp	Thr	Ser	Pro	Val	Leu	Gln	Leu	Ser	Cys	Thr	Asp	Thr	Arg	Phe
			180					185					190		
Ile	Glu	Leu	Met	Ala	Phe	Ala	Leu	Ala	Val	Met	Thr	Leu	Ile	Ile	Thr
	195						200					205			
Leu	Ile	Leu	Val	Ile	Leu	Ser	Tyr	Thr	Leu	Ile	Ile	Lys	Thr	Ile	Leu
	210					215					220				
Lys	Phe	Pro	Ser	Ala	Gln	Gln	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser
225					230					235					240
Ser	His	Met	Val	Val	Val	Ser	Ile	Thr	Tyr	Gly	Ser	Cys	Ile	Phe	Met
			245						250					255	
Tyr	Met	Lys	Thr	Ser	Ala	Lys	Glu	Arg	Val	Ser	Leu	Asn	Lys	Gly	Val
			260					265					270		
Ala	Val	Leu	Asn	Thr	Ser	Val	Ala	Pro	Leu	Leu	Asn	Pro	Phe	Ile	Tyr
		275					280					285			
Thr	Leu	Arg	Asn	Gln	Gln	Val	Lys	Asp	Ala	Phe	Lys	Gln	Val	Leu	His
	290					295					300				
Arg	Met	Cys	Tyr	Ser	Gln	Asn	Ser	Glu	Leu	Arg	Phe	Arg	Pro	Lys	
305					310					315					

<210> 1705  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1705

Met	Arg	Asn	Arg	Thr	Val	Thr	Thr	Phe	Ile	Leu	Leu	Gly	Leu	Thr	Asp
1				5				10						15	
Asp	Ile	Arg	Leu	Gln	Ile	Leu	Leu	Phe	Ile	Phe	Leu	Leu	Ser	Ser	Tyr
			20					25					30		

Met	Leu	Ser	Leu	Ser	Gly	Asn	Leu	Thr	Ile	Ile	Thr	Leu	Thr	Leu	Ile
	35					40					45				
Asp	Pro	His	Leu	Lys	Thr	Pro	Met	Tyr	Ile	Phe	Leu	Lys	Asn	Phe	Ser
	50					55					60				
Phe	Leu	Glu	Ile	Ser	Leu	Thr	Thr	Ala	Cys	Ile	Pro	Arg	Phe	Leu	Tyr
65					70				75						80
Ser	Ile	Ser	Ser	Gly	Asp	Lys	Ser	Ile	Thr	Tyr	Ile	Ala	Cys	Ala	Ser
				85					90					95	
Gln	Leu	Leu	Phe	Ile	Asp	Leu	Phe	Ala	Val	Thr	Glu	Phe	Phe	Leu	Leu
			100					105						110	
Ala	Ile	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	His
	115						120					125			
Tyr	Met	Thr	Ile	Met	Asn	Ser	Arg	Val	Cys	Lys	Asn	Phe	Ile	Phe	Ser
	130					135					140				
Cys	Trp	Val	Ala	Ala	Leu	Ile	Ile	Ile	Leu	Pro	Pro	Ile	Gly	Leu	Gly
145					150					155					160
Leu	Gly	Leu	Glu	Phe	Cys	Asp	Ser	Asp	Ile	Ile	Asp	His	Phe	Cys	Cys
				165					170					175	
Asp	Ala	Ala	Pro	Leu	Leu	Lys	Ile	Ser	Cys	Ser	Asp	Thr	Trp	Leu	Ile
			180					185					190		
Glu	Gln	Met	Val	Ile	Ala	Gly	Ala	Val	Leu	Thr	Phe	Ile	Ile	Thr	Phe
	195						200					205			
Val	Cys	Val	Val	Leu	Ser	Tyr	Val	Tyr	Ile	Ile	Lys	Thr	Ile	Leu	Arg
	210					215					220				
Phe	Pro	Ser	Ala	Lys	Gln	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser
225					230					235					240
His	Met	Ile	Val	Val	Ser	Ile	Thr	Tyr	Gly	Ser	Cys	Ile	Phe	Ile	Tyr
				245					250					255	
Val	Lys	Pro	Ser	Ser	Lys	Asp	Asp	Val	Ala	Ile	Asn	Lys	Gly	Ile	Ser
			260					265					270		
Leu	Leu	Ile	Ile	Ser	Ile	Ser	Pro	Met	Met	Asn	Pro	Phe	Ile	Tyr	Ala
		275					280					285			
Leu	Arg	Asn	Lys	Gln	Val	Lys	Gln	Ala	Phe	Asn	Tyr	Ser	Ile	Lys	Lys
	290					295					300				
Ile	Ala	Phe	Leu	Ser	Lys	Met									
305					310										

<210> 1706  
 <211> 299  
 <212> PRT  
 <213> Mus musculus

<400> 1706

Met	Lys	Asn	His	Ser	Val	Ile	Thr	Glu	Phe	Leu	Leu	Leu	Gly	Ile	Ser
1				5					10					15	
Asp	Thr	Pro	Glu	Leu	Gln	Phe	Val	Ile	Phe	Ile	Phe	Leu	Phe	Ile	Ala
			20					25					30		
Tyr	Ile	Leu	Ser	Val	Thr	Gly	Asn	Leu	Thr	Ile	Ile	Ile	Leu	Thr	Leu
	35					40						45			
Leu	Asp	Ser	Gln	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe
	50					55					60				
Ser	Phe	Leu	Glu	Ile	Ile	Phe	Thr	Ser	Val	Ser	Ile	Pro	Arg	Phe	Leu
65					70					75					80
Glu	Ser	Ile	Ile	Thr	Lys	Val	Lys	Thr	Ile	Ser	Tyr	Asn	Asn	Cys	Leu
				85					90					95	
Ala	Gln	Leu	Phe	Phe	Phe	Ile	Ser	Met	Gly	Val	Ser	Glu	Phe	Phe	Leu





Ser	Thr	Thr	Val	Asn	Ser	Ile	Phe	Gly	Leu	Phe	Val	Val	Leu	Ser	Thr
	195						200					205			
Leu	Gly	Leu	Asp	Phe	Leu	Leu	Ile	Leu	Leu	Ser	Tyr	Ala	Leu	Ile	Leu
	210					215					220				
Lys	Thr	Val	Leu	Asn	Met	Ala	Ser	His	Ser	Gly	Arg	Leu	Lys	Ala	Leu
225					230					235					240
Asn	Thr	Cys	Ile	Ser	His	Leu	Cys	Ala	Val	Val	Leu	Phe	Phe	Thr	Pro
			245						250					255	
Met	Ile	Cys	Leu	Ser	Met	Leu	His	Arg	Phe	Gly	Pro	Arg	Leu	Pro	Ser
		260						265					270		
His	Val	Tyr	Val	Thr	Leu	Ala	Asn	Met	His	Phe	Leu	Ile	Pro	Pro	Val
	275						280					285			
Met	Asn	Pro	Ile	Val	Tyr	Val	Val	Lys	Thr	Lys	Gln	Ile	Arg	Asp	Lys
	290					295					300				
Ile	Gln	Lys	Leu	Phe	Ile	Arg	Lys	Ala	Thr	Lys	Lys	Ala	Gln	Ala	Ala
305					310					315					320
Ser	Ile	Thr													

<210> 1708  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1708

Met	Gly	Gln	Asn	Asp	Ser	Ser	Val	Val	Glu	Phe	Ile	Leu	Leu	Gly	Phe
1				5					10					15	
Ser	His	Phe	Pro	Glu	Leu	Gln	Val	His	Met	Phe	Gly	Ala	Phe	Leu	Val
			20					25					30		
Ile	Tyr	Leu	Val	Thr	Leu	Thr	Gly	Asn	Ala	Thr	Ile	Val	Thr	Val	Ile
	35					40						45			
Phe	Leu	Asp	His	Ser	Leu	His	Ile	Pro	Met	Tyr	Leu	Phe	Leu	Gln	Asn
	50				55					60					
Leu	Ser	Val	Val	Glu	Ala	Ser	Phe	Ser	Thr	Thr	Val	Met	Pro	Glu	Met
65				70					75				80		
Leu	Val	Val	Leu	Thr	Ser	Glu	Lys	Ala	Thr	Ile	Ser	Phe	Gly	Gly	Cys
			85					90					95		
Phe	Ala	Gln	Thr	Tyr	Phe	Ile	Leu	Leu	Phe	Gly	Gly	Thr	Glu	Cys	Phe
	100						105						110		
Leu	Leu	Gly	Ala	Met	Ala	Tyr	Asp	Arg	Phe	Ala	Ala	Ile	Cys	Tyr	Pro
	115					120						125			
Leu	Thr	Tyr	Pro	Met	Ile	Met	Ser	Lys	Arg	Ile	Phe	Val	Lys	Leu	Val
	130				135						140				
Val	Cys	Ser	Trp	Val	Leu	Gly	Ile	Met	Thr	Ala	Thr	Val	Ser	Val	Thr
145				150					155						160
Trp	Val	Phe	Ser	Phe	Pro	Phe	Cys	Gly	Pro	Ser	Lys	Ile	Asn	His	Ile
			165					170					175		
Ser	Cys	Glu	Val	Pro	Ala	Val	Leu	Glu	Leu	Ala	Cys	Ala	Asp	Thr	Phe
		180					185						190		
Leu	Phe	Glu	Val	Tyr	Ser	Phe	Thr	Gly	Thr	Ile	Leu	Leu	Val	Leu	Val
	195						200					205			
Pro	Phe	Leu	Leu	Ile	Leu	Leu	Ser	Tyr	Thr	Gln	Ile	Leu	Phe	Thr	Val
	210				215						220				
Leu	Arg	Met	Pro	Ser	Thr	Thr	Gly	Arg	Gln	Lys	Ala	Phe	Ser	Thr	Cys
225				230						235					240
Ala	Ser	His	Leu	Thr	Ser	Val	Thr	Leu	Phe	Tyr	Ser	Thr	Ala	Cys	Met



<210> 1710  
 <211> 326  
 <212> PRT  
 <213> Mus musculus

<400> 1710  
 Met Ser Leu Arg Gln Thr Gln Gly Ser Asn Ile Val Met Arg Arg Gln  
 1 5 10 15  
 Asn His Ser Ser Thr Val Glu Phe Ile Leu Leu Arg Phe Ser Asn Tyr  
 20 25 30  
 Pro Glu Leu Gln Asp Gln Met Phe Gly Thr Phe Leu Val Ile Tyr Leu  
 35 40 45  
 Val Thr Val Met Gly Asn Ala Ile Ile Ile Thr Ile Ile Phe Leu Asp  
 50 55 60  
 Gln Ser Leu His Ile Pro Met Tyr Leu Phe Leu Gln Asn Leu Ser Leu  
 65 70 75 80  
 Val Asp Leu Cys Phe Ser Thr Val Ile Thr Pro Lys Met Leu Val Val  
 85 90 95  
 Leu Thr Ser Lys Lys Ala Thr Ile Ser Phe Gly Gly Cys Phe Ala Gln  
 100 105 110  
 Met Tyr Phe Ile Leu Phe Phe Gly Val Thr Glu Cys Phe Leu Leu Gly  
 115 120 125  
 Ala Met Ala Tyr Asp Arg Phe Ala Ala Ile Cys His Pro Leu Ser Tyr  
 130 135 140  
 Pro Met Ile Met Asn Lys Arg Val Phe Met Lys Leu Val Met Phe Ser  
 145 150 155 160  
 Trp Val Ser Gly Thr Met Met Ser Thr Leu Gln Thr Thr Trp Val Phe  
 165 170 175  
 Ser Phe Pro Tyr Cys Asp His Lys Glu Ile Asn His Leu Phe Cys Glu  
 180 185 190  
 Thr Pro Pro Val Leu Glu Leu Ala Cys Ala Asp Thr Phe Leu Phe Glu  
 195 200 205  
 Val Tyr Ala Phe Thr Gly Thr Ile Phe Ile Val Met Val Pro Phe Leu  
 210 215 220  
 Leu Ile Leu Leu Ser Tyr Thr Arg Ile Leu Phe Thr Ile Leu Arg Met  
 225 230 235 240  
 Pro Ser Thr Thr Gly Arg Gln Lys Ala Phe Ser Thr Cys Ala Ser His  
 245 250 255  
 Leu Thr Ser Val Thr Leu Phe Tyr Gly Thr Ala Ser Ile Ile Tyr Leu  
 260 265 270  
 Gln Pro Lys Ser Arg Tyr Ser Pro Asp Thr Lys Lys Leu Met Ser Leu  
 275 280 285  
 Ala Tyr Ile Leu Leu Thr Pro Leu Leu Asn Pro Leu Ile Tyr Ser Leu  
 290 295 300  
 Arg Asn Lys Glu Met Lys Arg Ala Val Leu Lys Leu Trp Gln Arg Lys  
 305 310 315 320  
 Val Ala Phe His Thr Ala  
 325

<210> 1711  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1711

Met	Gly	Arg	Gly	Asn	Arg	Thr	Thr	Val	Thr	Glu	Phe	Val	Leu	Met	Gly
1				5					10					15	
Phe	Thr	Asp	Arg	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Val	Val	Phe	Leu
		20						25					30		
Ile	Leu	Ile	Thr	Leu	Val	Gly	Asn	Leu	Gly	Met	Ile	Leu	Leu	Ile	Lys
		35					40					45			
Ala	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Ser	His	Leu
	50					55					60				
Ala	Phe	Ile	Asp	Leu	Cys	Tyr	Ser	Ser	Ser	Ile	Gly	Pro	Lys	Met	Leu
65					70					75					80
Gln	Asn	Leu	Leu	Val	Lys	Lys	Lys	Thr	Ile	Ser	Phe	Ser	Gly	Cys	Phe
				85					90					95	
Ala	Gln	Leu	Tyr	Phe	Ser	Ser	Ala	Phe	Val	Thr	Thr	Glu	Cys	Phe	Leu
			100					105					110		
Leu	Ala	Thr	Met	Ala	Tyr	Asp	Arg	Tyr	Met	Ala	Ile	Cys	Asn	Pro	Leu
		115					120					125			
Thr	Tyr	Thr	Ala	Ile	Met	Thr	Gln	Arg	Val	Cys	Lys	Glu	Leu	Val	Ile
	130					135					140				
Gly	Val	Tyr	Thr	Tyr	Gly	Phe	Leu	Asn	Ser	Val	Ile	Gln	Thr	Val	Leu
145					150					155					160
Thr	Phe	Gln	Leu	Ser	Phe	Cys	Asn	Ser	Asn	Val	Ile	His	His	Phe	Tyr
			165						170					175	
Cys	Ala	Asp	Pro	Pro	Leu	Leu	Ala	Leu	Ser	Cys	Ser	Asp	Thr	His	Asn
		180						185					190		
Lys	Glu	Arg	Gln	Leu	Leu	Ile	Phe	Ser	Ala	Val	Asn	Leu	Thr	Gly	Ser
		195					200					205			
Leu	Met	Thr	Val	Leu	Ile	Ser	Tyr	Ile	Cys	Ile	Leu	Val	Ser	Ile	Ile
	210					215					220				
Lys	Ile	Glu	Pro	Ser	Gln	Gly	Lys	Cys	Lys	Ala	Phe	Ser	Thr	Cys	Ala
225					230					235					240
Ser	His	Leu	Thr	Val	Val	Thr	Ile	Phe	Tyr	Gly	Thr	Leu	Phe	Phe	Met
			245						250					255	
Tyr	Met	Arg	Gln	Pro	Lys	Thr	Gly	Ser	Ser	Trp	Lys	Tyr	Ser	Lys	Val
		260					265						270		
Ile	Ser	Val	Phe	Tyr	Ser	Leu	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile
	275					280						285			
Tyr	Ser	Leu	Arg	Asn	Thr	Glu	Val	Lys	Asp	Thr	Leu	Lys	Lys	Met	Leu
	290					295					300				
Glu	Gly	Lys	Thr	Ser											
305															

<210> 1712

<211> 312

<212> PRT

<213> Mus musculus

<400> 1712

Met	Gly	Thr	Gly	Asn	Trp	Ser	Gln	Val	Ile	Glu	Phe	Ile	Ile	Leu	Gly
1				5					10					15	
Phe	Pro	His	Phe	Gln	Gly	Val	Gln	Ile	Tyr	Leu	Phe	Phe	Leu	Leu	Leu
		20						25					30		
Ser	Ile	Tyr	Leu	Thr	Thr	Ile	Leu	Gly	Asn	Leu	Leu	Ile	Phe	Leu	Val
		35				40						45			
Val	Tyr	Leu	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Arg	Phe	Val	Ser
	50					55					60				

Ile	Leu	Ser	Phe	Leu	Glu	Leu	Gly	Tyr	Thr	Ala	Ala	Thr	Ile	Pro	Lys
65					70					75					80
Met	Leu	Ala	Asn	Leu	Leu	Ser	Glu	Lys	Lys	Thr	Ile	Ser	Phe	Ser	Gly
			85						90					95	
Cys	Leu	Leu	Gln	Ile	Tyr	Phe	Phe	His	Ser	Leu	Gly	Ala	Thr	Glu	Cys
			100					105					110		
Tyr	Leu	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Arg
			115				120					125			
Pro	Leu	His	Tyr	Pro	Thr	Leu	Met	Thr	Gln	Ser	Leu	Cys	Ile	Lys	Ile
	130					135					140				
Ala	Ile	Gly	Cys	Trp	Leu	Gly	Gly	Leu	Ala	Gly	Pro	Val	Val	Glu	Ile
145					150					155					160
Ser	Leu	Val	Ser	Arg	Leu	Pro	Phe	Cys	Gly	Pro	Asn	His	Ile	Gln	His
				165					170					175	
Ile	Phe	Cys	Asp	Phe	Pro	Pro	Val	Leu	Ser	Leu	Ala	Cys	Thr	Asp	Thr
			180					185					190		
Ser	Val	Asn	Val	Leu	Val	Asp	Phe	Ile	Ile	Asn	Ser	Cys	Lys	Ile	Leu
		195				200						205			
Ala	Thr	Phe	Leu	Leu	Ile	Leu	Ser	Ser	Tyr	Leu	Gln	Ile	Ile	Arg	Thr
	210					215					220				
Val	Leu	Lys	Ile	Pro	Ser	Ala	Ala	Gly	Lys	Lys	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Thr	Val	Val	Leu	Ile	Phe	Tyr	Gly	Ser	Ile	Leu
				245					250					255	
Phe	Met	Tyr	Val	Arg	Leu	Lys	Lys	Ser	Tyr	Ser	Leu	Asp	Tyr	Asp	Arg
			260					265					270		
Ala	Leu	Ala	Val	Val	Tyr	Ser	Val	Ile	Thr	Pro	Phe	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Ile	Lys	Glu	Ala	Leu	Lys	Arg	Gln
	290					295					300				
Leu	Met	Arg	Thr	Gly	Ile	Leu	Arg								
305					310										

<210> 1713  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1713

Met	Arg	Ile	Asn	Arg	Ser	Thr	Ser	Val	Thr	Glu	Phe	Leu	Phe	Ser	Gly
1				5					10					15	
Phe	Pro	Gln	Phe	Glu	Asp	Gly	Ser	Phe	Leu	Phe	Phe	Ile	Pro	Leu	Phe
			20					25					30		
Phe	Ile	Tyr	Ile	Phe	Ile	Val	Ile	Gly	Asn	Leu	Ile	Val	Phe	Phe	Ala
		35					40					45			
Val	Arg	Met	Asp	Thr	Arg	Leu	His	Asn	Pro	Met	Tyr	Asn	Phe	Ile	Ser
	50					55					60				
Ile	Phe	Ser	Phe	Leu	Glu	Ile	Trp	Tyr	Thr	Thr	Ala	Thr	Ile	Pro	Lys
65					70					75					80
Met	Leu	Thr	Asn	Leu	Ile	Ser	Lys	Gln	Arg	Thr	Ile	Ser	Leu	Ile	Gly
				85					90					95	
Cys	Leu	Leu	Gln	Met	Tyr	Phe	Phe	His	Ser	Leu	Gly	Asn	Ser	Glu	Gly
			100					105					110		
Ile	Leu	Leu	Thr	Thr	Met	Ala	Ile	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
			115				120					125			
Pro	Leu	Arg	Tyr	Pro	Thr	Ile	Met	Thr	Pro	Arg	Leu	Cys	Ala	Gln	Leu

130		135		140
Ser Ala Gly Ser Cys Ile Phe Gly Phe Leu Val Leu Leu Pro Glu Ile				
145		150		155
Ala Trp Ile Ser Thr Leu Pro Phe Cys Gly Pro Asn Gln Ile His Gln				
	165		170	175
Ile Phe Cys Asp Phe Glu Pro Val Leu Arg Leu Ala Cys Thr Asp Thr				
	180		185	190
Ser Met Ile Leu Val Glu Asp Val Val His Ala Val Ala Ile Ile Phe				
	195		200	205
Ser Val Leu Val Ile Ala Ile Ser Tyr Met Arg Ile Ile Thr Val Ile				
	210		215	220
Leu Arg Ile Pro Ser Gly Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys				
225		230		235
Ala Ala His Leu Gly Val Phe Leu Met Phe Tyr Gly Ser Val Ser Leu				
	245		250	255
Met Tyr Leu Arg Phe Ser Ala Thr Phe Pro Pro Ile Leu Asp Thr Ala				
	260		265	270
Ile Ala Leu Met Phe Ala Val Leu Ala Pro Phe Phe Asn Pro Ile Ile				
	275		280	285
Tyr Ser Leu Arg Asn Lys Asp Met Lys Ile Ala Ile Lys Lys Leu Leu				
	290		295	300
Cys Ser Gln Lys Met Leu Pro Thr Ser Ala Ser				
305		310		315

<210> 1714  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1714

Met Glu Asn Gly Asn Leu Ser Thr Val Thr Val Phe Val Phe Thr Gly				
1		5		10
Phe Pro Gln Leu Lys Asn Gly Gly Leu Leu Tyr Phe Phe Pro Leu Leu				
	20		25	30
Phe Ile Tyr Ile Phe Ile Val Thr Gly Asn Leu Met Ile Phe Phe Ala				
	35		40	45
Val Arg Leu Asp Thr Arg Leu His Asn Pro Met Tyr Asn Phe Ile Ser				
	50		55	60
Ile Phe Ser Phe Leu Glu Met Trp Tyr Thr Thr Ala Thr Ile Pro Lys				
65		70		75
Met Leu Ser Asn Leu Ile Ser Glu Gln Lys Thr Ile Ser Phe Ile Gly				
	85		90	95
Cys Leu Leu Gln Met Tyr Phe Phe His Ser Leu Gly Asn Thr Glu Gly				
	100		105	110
Thr Leu Leu Thr Val Met Ala Ile Asp Arg Tyr Val Ala Ile Cys Asn				
	115		120	125
Pro Leu Arg Tyr Pro Asn Ile Met Thr Pro Arg Leu Cys Ala Gln Leu				
	130		135	140
Thr Ala Gly Ser Cys Val Phe Gly Phe Leu Ile Leu Leu Pro Glu Ile				
145		150		155
Val Trp Ile Ser Thr Leu Pro Phe Cys Gly Pro Asn Gln Ile Thr Gln				
	165		170	175
Ile Phe Cys Asp Phe Thr Pro Leu Leu Lys Leu Ala Cys Thr Asp Ala				
	180		185	190
Ser Val Ile Leu Val Gln Asp Val Ile His Ala Leu Ala Ile Leu Ile				
	195		200	205

Thr	Ser	Leu	Ile	Ile	Ser	Leu	Ser	Tyr	Ile	Arg	Ile	Ile	Val	Val	Ile
210						215					220				
Leu	Ser	Ile	Ser	Ser	Thr	Glu	Gly	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ala	Ala	His	Ile	Ala	Val	Phe	Leu	Leu	Phe	Phe	Gly	Ser	Val	Ala	Leu
				245					250					255	
Met	Tyr	Leu	Arg	Phe	Ser	Ala	Thr	Tyr	Thr	Pro	Phe	Trp	Asp	Asn	Thr
			260					265					270		
Ile	Ala	Leu	Thr	Phe	Ser	Val	Phe	Ala	Pro	Leu	Phe	Asn	Pro	Ile	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Asp	Ala	Ile	Asn	Lys	Leu	Ile
	290					295					300				
Cys	Ser	Gln	Lys	Val	Ser	Asn	Glu	Ser	Arg	Arg					
305					310					315					

<210> 1715  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 1715

Met	Thr	Gln	Leu	Val	Ala	Ser	Gln	Asn	Gln	Thr	Met	Val	Ile	Glu	Phe
1				5					10					15	
Leu	Phe	Ser	Val	Phe	Pro	Pro	Leu	Tyr	Glu	Gly	Gly	Leu	Leu	Phe	Phe
			20					25					30		
Ile	Leu	Leu	Ile	Leu	Val	Tyr	Ala	Phe	Ile	Ile	Ser	Gly	Asn	Leu	Val
		35					40					45			
Ile	Phe	Val	Ala	Val	Gln	Leu	Asp	Met	Ala	Leu	His	Thr	Pro	Met	Tyr
	50					55					60				
Phe	Phe	Ile	Ser	Val	Leu	Ser	Phe	Leu	Glu	Ile	Trp	Tyr	Thr	Thr	Thr
65					70					75					80
Thr	Ile	Pro	Lys	Met	Leu	Ser	Ser	Leu	Val	Ser	Glu	Lys	Lys	Thr	Ile
			85						90					95	
Ser	Leu	Gly	Gly	Cys	Leu	Met	Gln	Met	Tyr	Phe	Phe	His	Ser	Leu	Gly
		100						105					110		
Ile	Thr	Glu	Gly	Cys	Ile	Leu	Thr	Ala	Met	Ser	Ile	Asp	Arg	Tyr	Ile
	115						120					125			
Ala	Ile	Cys	Tyr	Pro	Leu	Arg	Tyr	Pro	Thr	Ile	Met	Thr	Ser	Lys	Leu
	130					135					140				
Cys	Ile	Gln	Leu	Thr	Ala	Gly	Ser	Cys	Phe	Cys	Gly	Phe	Leu	Leu	Val
145					150					155					160
Leu	Pro	Glu	Ile	Ala	Trp	Ile	Ala	Thr	Leu	Pro	Phe	Cys	Gly	Ser	Asn
			165						170					175	
Lys	Ile	His	Gln	Ile	Phe	Cys	Asp	Phe	Thr	Pro	Val	Leu	Ser	Leu	Ala
		180						185					190		
Cys	Thr	Asp	Thr	Ser	Leu	Val	Val	Ile	Val	Asp	Ala	Ile	His	Ala	Val
	195						200					205			
Glu	Ile	Leu	Ala	Ser	Phe	Leu	Val	Ile	Ala	Leu	Ser	Tyr	Ile	Arg	Ile
	210					215					220				
Ile	Met	Val	Ile	Leu	Gly	Met	Pro	Ser	Ala	Glu	Gly	Arg	His	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Ala	Ala	His	Leu	Ala	Val	Phe	Leu	Leu	Phe	Phe	Gly
			245						250					255	
Ser	Val	Ala	Val	Met	Tyr	Leu	Arg	Phe	Ser	Ala	Thr	Tyr	Ser	Val	Phe
		260						265					270		
Trp	Asp	Thr	Val	Ile	Ala	Val	Thr	Phe	Val	Ile	Leu	Ala	Pro	Phe	Leu

	275		280		285										
Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Met	Lys	Asp	Ala	Ile
	290					295					300				
Gly	Arg	Leu	Phe	His	Gln	Lys	Arg	Asp	Val	Arg	Ala	Gln	Lys		
305					310					315					

<210> 1716  
 <211> 299  
 <212> PRT  
 <213> Mus musculus

<400> 1716

Met	Trp	Asn	Thr	Ser	Glu	Ala	Ala	Phe	Leu	Ser	Cys	Ser	Cys	Trp	Tyr
1				5					10					15	
Thr	Cys	Ser	Pro	Leu	Val	Val	Ile	Cys	Ser	Ser	Ser	Leu	Val	Ile	Arg
			20					25					30		
Leu	Asp	Ala	Ala	Leu	His	Lys	Pro	Met	Tyr	His	Phe	Val	Ser	Val	Leu
		35					40					45			
Ser	Phe	Leu	Glu	Leu	Trp	Tyr	Thr	Ala	Thr	Thr	Met	Pro	Lys	Met	Leu
	50					55					60				
Ala	Asn	Leu	Leu	Ser	Glu	Lys	Lys	Thr	Ile	Ser	Phe	Ala	Gly	Cys	Leu
65					70				75					80	
Leu	Gln	Thr	Tyr	Phe	His	Ser	Leu	Gly	Ala	Ser	Glu	Cys	Tyr	Leu	
				85				90					95		
Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Arg	Pro	Leu
			100					105					110		
His	Tyr	Pro	Ser	Ile	Met	Thr	Thr	Ala	Leu	Cys	Val	Lys	Met	Ala	Ala
		115					120					125			
Gly	Cys	Trp	Thr	Cys	Gly	Phe	Leu	Cys	Pro	Ile	Ser	Glu	Val	Ile	Leu
	130					135					140				
Val	Ser	Gln	Leu	Pro	Phe	Cys	Asn	Tyr	Asn	Glu	Ile	Pro	His	Ile	Phe
145					150				155					160	
Cys	Asp	Phe	Pro	Pro	Leu	Leu	Ser	Leu	Ala	Cys	Lys	Asp	Thr	Ser	Thr
				165					170					175	
Asn	Val	Leu	Val	Asp	Phe	Ala	Val	Asn	Ala	Phe	Ile	Ile	Leu	Ile	Thr
		180						185					190		
Phe	Leu	Phe	Ile	Met	Ala	Ser	Tyr	Gly	Arg	Ile	Ile	Gly	Ala	Val	Leu
	195						200					205			
Lys	Ile	Lys	Thr	Ala	Ala	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Ala
	210				215						220				
Ser	His	Leu	Ile	Val	Val	Leu	Ile	Phe	Phe	Gly	Ser	Ile	Ile	Phe	Met
225					230				235					240	
Tyr	Val	Arg	Leu	Lys	Lys	Ser	Tyr	Ser	Leu	Thr	Leu	Asp	Arg	Thr	Leu
				245					250					255	
Ala	Val	Val	Tyr	Ser	Val	Leu	Thr	Pro	Leu	Ala	Asn	Pro	Ile	Ile	Tyr
			260				265						270		
Ser	Leu	Arg	Asn	Lys	Glu	Leu	Ile	Gln	Ala	Ile	Lys	Arg	Thr	Phe	Phe
	275						280					285			
Lys	Lys	Val	Glu	Lys	Ala	Ser	Pro	Thr	His	His					
	290					295									

<210> 1717  
 <211> 314  
 <212> PRT  
 <213> Mus musculus



<400> 1717

Met	Asp	His	Val	Asn	Tyr	Thr	Trp	Thr	Arg	Thr	Phe	Ile	Leu	Ala	Gly
1				5					10					15	
Phe	Thr	Thr	Ser	Gly	Ala	Leu	Arg	Pro	Leu	Ala	Phe	Leu	Gly	Thr	Leu
			20					25					30		
Cys	Ile	Tyr	Leu	Leu	Thr	Leu	Ala	Gly	Asn	Leu	Phe	Ile	Ile	Val	Leu
		35					40					45			
Val	Gln	Ala	Asp	Ser	Gly	Leu	Ser	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Ser
	50					55					60				
Val	Leu	Ser	Phe	Leu	Glu	Leu	Trp	Tyr	Val	Ser	Thr	Thr	Val	Pro	Thr
65					70					75					80
Leu	Leu	His	Thr	Leu	Leu	His	Gly	His	Ser	Pro	Ile	Pro	Ser	Ser	Ala
				85					90					95	
Cys	Phe	Val	Gln	Leu	Tyr	Val	Phe	His	Ser	Leu	Gly	Met	Thr	Glu	Cys
			100					105					110		
Tyr	Leu	Leu	Gly	Val	Met	Ala	Leu	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Arg
			115				120					125			
Pro	Leu	His	Tyr	His	Ala	Leu	Met	Ser	Lys	Gln	Val	Gln	Leu	Trp	Leu
	130					135					140				
Ala	Gly	Ala	Thr	Trp	Val	Ala	Gly	Phe	Ser	Ala	Ala	Leu	Val	Pro	Ala
145					150					155					160
Cys	Leu	Thr	Ala	Ser	Leu	Pro	Tyr	Cys	Leu	Lys	Glu	Ile	Ala	His	Tyr
				165					170					175	
Phe	Cys	Asp	Leu	Ala	Pro	Leu	Met	Arg	Leu	Ala	Cys	Val	Ser	Thr	Arg
			180					185					190		
Trp	His	Ala	Arg	Val	His	Gly	Ala	Val	Ile	Gly	Val	Ala	Thr	Gly	Cys
		195					200					205			
Asn	Phe	Val	Leu	Ile	Leu	Gly	Leu	Tyr	Gly	Gly	Ile	Leu	Thr	Ala	Val
	210					215					220				
Leu	Lys	Leu	Pro	Ser	Ala	Ala	Ser	Arg	Ala	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ser	Ser	His	Met	Thr	Val	Val	Ala	Leu	Phe	Tyr	Ala	Ser	Ala	Phe	Thr
				245					250					255	
Val	Tyr	Val	Gly	Ser	Pro	Gln	Ser	Arg	Pro	Glu	Gly	Thr	Asp	Lys	Arg
		260						265					270		
Ile	Ala	Leu	Val	Tyr	Ala	Leu	Leu	Thr	Pro	Phe	Leu	Asn	Pro	Ile	Ile
	275						280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Glu	Ala	Val	Lys	Arg	Val	Ser
	290					295					300				
Glu	Lys	Ile	Arg	Thr	Leu	Leu	Arg	Asp	Thr						
305					310										

<210> 1718

<211> 312

<212> PRT

<213> Mus musculus

<400> 1718

Met	Asp	His	Val	Asn	Tyr	Thr	Trp	Thr	Arg	Thr	Phe	Ile	Leu	Ala	Gly
1				5					10					15	
Phe	Thr	Thr	Ser	Gly	Thr	Leu	Gln	His	Leu	Ala	Val	Phe	Gly	Thr	Leu
			20					25					30		
Cys	Ile	Tyr	Leu	Leu	Thr	Leu	Ala	Gly	Asn	Leu	Phe	Ile	Ile	Val	Leu
		35					40					45			
Val	Gln	Ala	Asp	Ser	Gly	Leu	Ser	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Ser

50		55		60											
Val	Leu	Ser	Phe	Leu	Glu	Leu	Trp	Tyr	Val	Ser	Thr	Thr	Val	Pro	Thr
65					70					75					80
Leu	Leu	His	Thr	Leu	Leu	His	Gly	Pro	Ser	Pro	Ile	Pro	Ser	Ser	Ala
				85					90					95	
Cys	Phe	Val	Gln	Leu	Tyr	Val	Phe	His	Ser	Leu	Gly	Met	Thr	Glu	Cys
			100					105					110		
Tyr	Leu	Leu	Gly	Val	Met	Ala	Leu	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Arg
		115					120					125			
Pro	Leu	His	Tyr	His	Ala	Leu	Met	Ser	Arg	Gln	Val	Gln	Lys	Gln	Leu
	130					135					140				
Val	Gly	Val	Thr	Trp	Leu	Ala	Gly	Phe	Ser	Ala	Ala	Leu	Val	Pro	Ala
145					150					155					160
Gly	Leu	Thr	Ala	Ser	Leu	Pro	Tyr	Cys	Leu	Lys	Glu	Val	Ala	His	Tyr
			165					170						175	
Phe	Cys	Asp	Leu	Ala	Pro	Val	Met	Gln	Leu	Ala	Cys	Val	Asp	Thr	Ser
		180					185					190			
Trp	His	Ala	Arg	Leu	Tyr	Ile	Ala	Val	Ile	Gly	Met	Ile	Asn	Thr	Cys
	195					200						205			
Asn	Leu	Thr	Phe	Ile	Leu	Gly	Leu	Tyr	Gly	Gly	Ile	Val	Arg	Ala	Val
	210				215						220				
Leu	Lys	Leu	Pro	Ser	Ala	Ala	Ser	Arg	Ala	Lys	Ala	Phe	Ser	Thr	Cys
225				230						235					240
Ser	Ser	His	Ile	Thr	Val	Val	Thr	Leu	Phe	Phe	Gly	Ser	Ala	Phe	Ile
			245					250						255	
Val	Tyr	Val	Gly	Pro	Pro	Glu	Ile	Arg	Ala	Glu	Gly	Arg	Asp	Lys	Leu
		260					265					270			
Ile	Ala	Leu	Val	Tyr	Thr	Leu	Leu	Thr	Pro	Phe	Phe	Asn	Pro	Ile	Ile
	275				280							285			
Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Lys	Glu	Ala	Phe	Lys	Arg	Val	Thr
	290				295						300				
Gln	Arg	Ile	Asn	Ala	Val	Leu	Lys								
305					310										

<210> 1719  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1719

Met	Val	Glu	Ser	Asn	Val	Thr	Cys	Trp	Gln	Gly	Phe	Val	Phe	Leu	Gly
1				5					10					15	
Phe	Ser	Ser	Phe	Gly	Glu	Leu	Gln	Leu	Leu	Leu	Phe	Val	Leu	Phe	Leu
			20					25					30		
Ser	Leu	Tyr	Leu	Val	Thr	Ile	Thr	Ser	Asn	Val	Phe	Ile	Ile	Ile	Val
		35				40					45				
Ile	Arg	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50				55						60				
Phe	Leu	Ser	Phe	Ser	Glu	Thr	Cys	Tyr	Thr	Leu	Gly	Ile	Ile	Pro	Arg
65				70					75					80	
Met	Leu	Ser	Gly	Leu	Val	Met	Gly	Gly	Gln	Ala	Ile	Ser	Phe	Met	Gly
			85					90						95	
Cys	Ala	Thr	Gln	Met	Phe	Phe	Ser	Ala	Ser	Trp	Ala	Cys	Thr	Asn	Cys
		100					105					110			
Phe	Leu	Leu	Ser	Val	Met	Gly	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Ala
	115					120						125			

Pro	Leu	His	Tyr	Ala	Ser	Arg	Met	Asn	Pro	Thr	Val	Cys	Ala	Gln	Leu
130						135					140				
Val	Gly	Thr	Ser	Phe	Leu	Ser	Gly	Tyr	Leu	Phe	Gly	Leu	Gly	Met	Thr
145					150					155					160
Leu	Val	Ile	Phe	Arg	Leu	Ser	Phe	Cys	Ser	Ser	His	Glu	Ile	Gln	His
				165					170					175	
Phe	Phe	Cys	Asp	Thr	Pro	Pro	Val	Leu	Ser	Leu	Thr	Cys	Gly	Asp	Thr
			180					185					190		
Arg	Leu	Ser	Glu	Leu	Gly	Ile	Leu	Ile	Leu	Ser	Leu	Leu	Val	Leu	Leu
		195					200					205			
Val	Ser	Phe	Phe	Leu	Ile	Ser	Val	Ser	Tyr	Ala	Tyr	Ile	Leu	Val	Ala
	210					215					220				
Ile	Leu	Arg	Ile	Pro	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Thr	Val	Val	Val	Ile	His	Tyr	Gly	Cys	Ala	Ser
				245					250					255	
Phe	Met	Tyr	Leu	Arg	Pro	Lys	Ala	Ser	Tyr	Ser	Leu	Glu	Arg	Asp	Gln
			260					265					270		
Leu	Ile	Ala	Val	Thr	Tyr	Thr	Val	Ala	Thr	Pro	Leu	Leu	Asn	Pro	Ile
		275					280					285			
Val	Tyr	Ser	Leu	Arg	Asn	Arg	Ala	Val	Gln	Thr	Ala	Leu	Arg	Asn	Ala
	290					295					300				
Phe	Arg	Gly	Ser	Leu	Leu	Gly	Lys	Arg							
305					310										

<210> 1720  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1720

Met	Ile	Asn	Gln	Thr	Ile	Leu	Gln	Glu	Phe	Ile	Leu	Ile	Gly	Phe	Ser
1				5					10					15	
Ala	Tyr	Pro	Leu	Val	Gln	Thr	Cys	Leu	Phe	Val	Val	Phe	Leu	Cys	Leu
			20					25					30		
Tyr	Met	Val	Thr	Leu	Ala	Ser	Asn	Leu	Thr	Ile	Met	Gly	Leu	Thr	Trp
	35						40					45			
Ala	Asp	Arg	Tyr	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Ser	Ala	Leu
	50					55					60				
Ser	Phe	Ser	Glu	Thr	Cys	Tyr	Thr	Leu	Thr	Ile	Ile	Pro	Lys	Met	Leu
65					70					75					80
Val	Asp	Leu	Leu	Asp	Lys	Asp	Asn	Arg	Ile	Ser	Asp	Ile	Gly	Cys	Gly
			85						90				95		
Leu	Gln	Met	Cys	Phe	Phe	Leu	Gly	Leu	Gly	Gly	Thr	Asn	Cys	Ile	Leu
		100						105					110		
Leu	Thr	Val	Met	Gly	Tyr	Asp	Arg	Phe	Leu	Ala	Ile	Cys	Asn	Ala	Leu
	115						120					125			
Lys	Tyr	Pro	Leu	Leu	Met	Thr	Asn	Val	Ala	Cys	Gly	Gln	His	Val	Ala
	130					135					140				
Thr	Ala	Trp	Val	Gly	Gly	Phe	Leu	Ile	Ser	Leu	Ile	Glu	Thr	Thr	Leu
145					150					155					160
Ile	Phe	Arg	Val	Ser	Phe	Cys	Ile	Pro	Asn	Leu	Ile	Arg	His	Phe	Phe
			165						170					175	
Cys	His	Met	Arg	Ala	Val	Leu	Arg	Leu	Ser	Cys	Thr	Asp	Ser	Asn	Phe
			180					185					190		
Thr	Glu	Phe	Ile	Val	Thr	Leu	Met	Ser	Val	Ser	Gly	Leu	Leu	Gly	Thr



Arg	Asp	Lys	Lys	Leu	Ala	Leu	Phe	Tyr	Asn	Val	Val	Ser	Ala	Phe	Leu
		275					280					285			
Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Phe
	290					295					300				
Leu	Lys	Val	Leu	Gly	Asp	Arg	Gly	Ala	Ala	Lys					
305					310					315					

<210> 1722  
 <211> 304  
 <212> PRT  
 <213> Mus musculus

<400> 1722															
Met	Gln	Glu	Leu	Ser	Gln	Ile	Thr	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10				15		
Phe	Thr	Pro	Asp	Pro	Arg	Thr	Asn	Pro	Leu	Leu	Phe	Pro	Phe	Phe	Leu
			20				25					30			
Val	Phe	Tyr	Leu	Leu	Ile	Leu	Leu	Ser	Asn	Ser	His	Leu	Leu	Ala	Ile
		35				40					45				
Ile	His	Gln	Asp	Ser	Asp	Leu	His	Thr	Pro	Pro	Thr	Tyr	Phe	Phe	Ile
	50				55						60				
Gly	Val	Leu	Ser	Met	Val	Gly	Val	Cys	Tyr	Ala	Thr	Thr	Thr	Val	Ser
65				70					75						80
Gln	Thr	Leu	Ala	His	Ile	Leu	Ser	Arg	Lys	Arg	Ala	Ile	Ser	Phe	Thr
				85					90				95		
Arg	Cys	Val	Ala	His	Ile	Tyr	Ile	Phe	Leu	Leu	Phe	Gly	Val	Thr	Glu
			100					105					110		
Ser	Trp	Leu	Leu	Ser	Ile	Met	Ser	Val	Asp	Arg	Tyr	Ile	Ala	Ile	Cys
		115				120						125			
His	Pro	Leu	Arg	Tyr	Lys	Val	Ile	Val	Ser	Gln	Gly	Met	Cys	Leu	Leu
	130					135					140				
Met	Val	Gly	Ile	Cys	Ala	Thr	Tyr	Gly	Val	Val	Gly	Gly	Leu	Cys	Cys
145					150				155						160
Thr	Phe	Phe	Ala	Met	Arg	Leu	Pro	Tyr	Cys	Gly	Pro	Ser	Glu	Ile	Asp
				165				170					175		
His	Tyr	Phe	Cys	Glu	Val	Pro	Ala	Val	Leu	Lys	Leu	Ala	Cys	Ala	Asp
		180						185				190			
Thr	Ser	Leu	Ser	Asp	Phe	Val	Asp	Phe	Ile	Ile	Gly	Phe	Asn	Val	Ile
		195				200						205			
Val	Val	Pro	Leu	Ser	Leu	Ile	Ala	Ile	Val	Tyr	Ala	Asn	Ile	Phe	Thr
	210				215						220				
Val	Ile	Met	Lys	Ile	Arg	Ser	Thr	Gln	Arg	Arg	Thr	Lys	Asp	Gln	Gly
225					230				235						240
Glu	Asp	Leu	Arg	Leu	Pro	His	His	Cys	Gly	His	His	Val	Cys	His	Leu
				245				250						255	
Met	Gln	His	His	Ala	His	Glu	Ser	Cys	Leu	Trp	Leu	Leu	Ile	Lys	Gln
		260						265					270		
Arg	Gln	Glu	Asn	Gly	Leu	Phe	Tyr	Asn	Ile	Ala	Thr	Ala	Phe	Leu	Asn
		275					280					285			
Pro	Val	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Lys	Arg	Phe	Leu
	290					295					300				

<210> 1723  
 <211> 313  
 <212> PRT

<213> Mus musculus

<400> 1723

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Met Arg Glu Glu Asn Glu Ser Ser Thr Ile Asp Phe Thr Leu Leu Gly
 1      5      10      15
Val Thr Arg Gln Arg Glu Gln Glu Tyr Phe Phe Phe Ile Leu Phe Leu
 20      25      30
Phe Ile Tyr Pro Ile Thr Val Phe Gly Asn Met Leu Ile Ile Leu Ala
 35      40      45
Ile His Ser Asp Thr Arg Leu His Asn Pro Met Tyr Phe Phe Leu Ala
 50      55      60
Asn Leu Ser Leu Val Asp Ile Phe Phe Ser Ser Val Thr Ile Pro Lys
 65      70      75      80
Met Leu Ala Asn His Leu Leu Gly Ser Lys Ala Ile Ser Phe Gly Gly
 85      90      95
Cys Met Ala Gln Met Tyr Phe Met Ile Gly Leu Gly Asn Thr Asp Ser
100      105      110
Tyr Ile Leu Ala Ala Met Ala Tyr Asp Arg Ala Val Ala Ile Ser Arg
115      120      125
Pro Leu His Tyr Ala Thr Ile Met Ser Pro Gln Leu Cys Val Leu Leu
130      135      140
Val Ala Gly Ser Trp Val Ile Ala Asn Ala Asn Ala Leu Pro His Thr
145      150      155      160
Leu Leu Thr Ala Arg Leu Ser Phe Cys Gly Asn Lys Asp Val Ala Asn
165      170      175
Phe Tyr Cys Asp Ile Thr Pro Leu Leu Gln Leu Ser Cys Ser Asp Ile
180      185      190
Arg Phe Asn Val Lys Met Met Tyr Leu Gly Val Gly Val Phe Ser Val
195      200      205
Pro Leu Leu Cys Ile Ile Ile Ser Tyr Val Arg Val Phe Ser Thr Val
210      215      220
Leu Arg Val Pro Ser Thr Lys Gly Phe Leu Lys Ala Leu Ser Thr Cys
225      230      235      240
Gly Ser His Leu Thr Val Val Ser Leu Tyr Tyr Gly Thr Val Met Gly
245      250      255
Met Tyr Phe Arg Pro Leu Thr Ser Tyr Ser Leu Lys His Ala Leu Ile
260      265      270
Thr Val Met Tyr Thr Ala Val Thr Pro Met Leu Asn Pro Phe Ile Tyr
275      280      285
Ser Leu Arg Asn Arg Asp Met Lys Ala Ala Leu Lys Lys Leu Phe His
290      295      300
Cys Pro Ser Ser Ser Ser Ser Leu Met
305      310
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<210> 1724

<211> 314

<212> PRT

<213> Mus musculus

<400> 1724

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Met Ala Val Thr Asn Leu Thr Tyr Lys Pro Gln Phe Gln Leu Leu Gly
 1      5      10      15
Leu Met Asp Gly Thr Asp Pro His Pro Leu Leu Phe Leu Leu Phe Leu
 20      25      30
Ser Ile Tyr Leu Leu Asn Ala Leu Gly Asn Leu Ser Met Val Val Leu
 35      40      45
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Val	Arg	Ser	Asp	Gly	Ala	Leu	Cys	Ser	Pro	Met	Tyr	Tyr	Phe	Leu	Gly
50						55					60				
His	Leu	Ser	Leu	Val	Asp	Val	Cys	Phe	Thr	Thr	Val	Thr	Val	Pro	Arg
65					70					75					80
Leu	Leu	Ala	Thr	Leu	Leu	His	Pro	Gly	Gln	Ala	Ile	Ser	Phe	Gln	Ala
				85					90					95	
Cys	Phe	Ala	Gln	Met	Tyr	Phe	Phe	Val	Ala	Leu	Gly	Ile	Thr	Glu	Ser
			100					105					110		
Tyr	Leu	Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Ala	Val	Ala	Val	Cys	Arg
			115				120					125			
Pro	Leu	His	Tyr	Gly	Ala	Val	Met	Thr	Pro	Trp	Arg	Cys	Phe	Leu	Leu
						135					140				
Val	Ala	Ala	Ser	Trp	Ala	Val	Ala	His	Leu	His	Ser	Leu	Leu	His	Thr
145					150					155					160
Leu	Leu	Ile	Ser	Ala	Leu	Thr	Tyr	Pro	Pro	Ser	Ala	Pro	Val	Arg	His
				165					170					175	
Phe	Phe	Cys	Asp	Met	Thr	Val	Met	Leu	Ser	Leu	Ala	Thr	Ser	Asp	Thr
			180					185					190		
Ser	Ala	Ala	Glu	Thr	Ala	Ile	Phe	Ser	Glu	Gly	Leu	Thr	Val	Val	Leu
			195				200					205			
Thr	Pro	Leu	Leu	Leu	Val	Ser	Leu	Ser	Tyr	Ala	Arg	Ile	Leu	Val	Ala
					215						220				
Val	Leu	Gly	Ile	Arg	Thr	Thr	Gly	Gly	Arg	His	Arg	Val	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ala	His	Leu	Val	Val	Val	Ser	Leu	Phe	Phe	Gly	Ser	Val	Leu
				245					250					255	
Ser	Val	Tyr	Phe	Arg	Pro	Ser	Ser	Ala	Tyr	Ser	Ala	Arg	Tyr	Asp	Arg
			260					265					270		
Met	Ala	Ser	Val	Val	Tyr	Ala	Val	Val	Thr	Pro	Thr	Leu	Asn	Pro	Phe
			275				280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Ser	Ala	Leu	Lys	Arg	Gly
			290			295					300				
Phe	Arg	Trp	Arg	Ala	Ala	Pro	Gln	Asp	Glu						
305					310										

<210> 1725  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1725															
Met	Glu	Ser	Lys	Phe	Glu	Ser	Asn	Gly	Thr	Ala	Val	Thr	Glu	Phe	Ile
1				5					10					15	
Leu	Leu	Gly	Leu	Val	Glu	Thr	Ala	Gly	Leu	Gln	Pro	Val	Ile	Phe	Val
			20					25					30		
Val	Phe	Leu	Phe	Ala	Tyr	Leu	Leu	Thr	Val	Gly	Gly	Asn	Leu	Ser	Ile
			35				40					45			
Leu	Ala	Ala	Val	Phe	Val	Glu	Pro	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe
			50			55					60				
Phe	Leu	Gly	Asn	Leu	Ser	Met	Leu	Asp	Val	Gly	Cys	Ile	Ser	Val	Thr
65				70					75					80	
Val	Pro	Ser	Met	Leu	Gly	Arg	Leu	Leu	Ser	His	Lys	Arg	Thr	Val	Pro
			85					90					95		
Tyr	Gly	Ala	Cys	Leu	Thr	Gln	Leu	Phe	Phe	Phe	His	Gln	Leu	Ala	Gly
			100					105					110		
Val	Asp	Cys	Phe	Leu	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Phe	Leu	Ala





Ser	Ser	Thr	Gln	Leu	Asn	Glu	Leu	Leu	Leu	Phe	Gly	Val	Gly	Phe	Ile
		195					200					205			
Met	Ala	Gly	Thr	Pro	Met	Ala	Leu	Ile	Phe	Ile	Ser	Tyr	Ile	His	Val
	210					215					220				
Ala	Ala	Ala	Val	Leu	Arg	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Thr	Val	Val	Ala	Met	Phe	Tyr	Gly
			245						250					255	
Thr	Gly	Met	Phe	Asn	Tyr	Met	Arg	Leu	Gly	Ser	Thr	Lys	Phe	Ser	Asp
			260					265					270		
Lys	Asp	Lys	Ala	Ile	Gly	Ile	Phe	Asn	Thr	Val	Ile	Asn	Pro	Met	Leu
		275					280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Pro	Asp	Val	Gln	Ala	Ala	Leu
	290					295					300				
Trp	Arg	Val	Leu	Thr	Gly	Arg	Arg	Pro	Ala	Ala					
305					310					315					

<210> 1727  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1727

Met	Gln	Pro	Lys	Pro	Arg	Ala	Asn	Gly	Thr	Thr	Ile	Thr	Glu	Phe	Ile
1				5					10					15	
Leu	Leu	Gly	Leu	Val	Glu	Thr	Pro	Glu	Leu	Trp	Pro	Leu	Val	Phe	Ile
			20					25					30		
Leu	Phe	Leu	Leu	Ala	Tyr	Met	Thr	Thr	Val	Gly	Gly	Asn	Leu	Ser	Ile
	35						40					45			
Leu	Ala	Ala	Val	Leu	Val	Glu	Pro	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Gly	Asn	Leu	Ser	Val	Met	Asp	Val	Gly	Cys	Ile	Ser	Val	Thr
65				70					75					80	
Ile	Pro	Ser	Met	Leu	Val	Arg	Leu	Leu	Val	His	Lys	Arg	Thr	Ile	Pro
			85					90					95		
Tyr	Gly	Asp	Cys	Leu	Thr	Gln	Leu	Phe	Phe	Phe	His	Leu	Leu	Val	Gly
		100					105						110		
Val	Asp	Cys	Phe	Leu	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Phe	Leu	Ala
	115						120					125			
Ile	Cys	Arg	Pro	Leu	Thr	Tyr	Ser	Thr	Arg	Met	Asn	His	Thr	Ile	Gln
	130					135					140				
Arg	Ile	Leu	Val	Ala	Thr	Ser	Trp	Ala	Cys	Ala	Phe	Ser	Asn	Ala	Leu
145				150					155					160	
Thr	His	Thr	Val	Ala	Ile	Ser	Thr	Leu	His	Phe	Cys	Gly	Pro	Asn	Val
			165					170						175	
Ile	Asn	His	Phe	Tyr	Cys	Asp	Leu	Pro	Gln	Leu	Phe	Gln	Leu	Ser	Cys
		180					185						190		
Ser	Ser	Thr	Gln	Leu	Asn	Glu	Leu	Leu	Leu	Phe	Gly	Val	Gly	Phe	Ile
	195						200					205			
Met	Ala	Gly	Thr	Pro	Met	Ala	Leu	Ile	Phe	Thr	Ser	Tyr	Met	His	Val
	210					215					220				
Ala	Ala	Ala	Val	Leu	Arg	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Thr	Val	Val	Ala	Ile	Phe	Tyr	Gly
			245					250						255	
Ala	Gly	Ile	Phe	Asn	Tyr	Met	Arg	Leu	Gly	Ser	Thr	Lys	Leu	Ser	Asp

			260					265				270			
Lys	Asp	Lys	Ala	Ile	Gly	Ile	Phe	Asn	Thr	Val	Ile	Asn	Pro	Met	Leu
		275					280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Pro	Asp	Val	Gln	Ala	Ala	Leu
	290					295					300				
Trp	Arg	Val	Leu	Thr	Gly	Arg	Arg	Pro	Ala	Ala					
305					310					315					

<210> 1728  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1728

Met	Gln	Pro	Lys	Pro	Arg	Ala	Asn	Gly	Thr	Thr	Val	Thr	Glu	Phe	Ile
1				5					10					15	
Leu	Leu	Gly	Leu	Val	Glu	Thr	Pro	Glu	Leu	Trp	Pro	Leu	Val	Phe	Ile
			20					25					30		
Leu	Phe	Leu	Leu	Ala	Tyr	Met	Thr	Thr	Val	Gly	Gly	Asn	Leu	Ser	Ile
	35					40						45			
Leu	Ala	Ala	Val	Leu	Val	Glu	Pro	Lys	Leu	His	Thr	His	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Gly	Asn	Leu	Ser	Val	Met	Asp	Val	Gly	Cys	Ile	Ser	Val	Thr
65					70					75					80
Ile	Pro	Ser	Met	Leu	Gly	Arg	Leu	Leu	Ala	His	Arg	Leu	Thr	Val	Pro
			85						90					95	
Tyr	Gly	Ala	Cys	Leu	Thr	Gln	Leu	Phe	Phe	Phe	His	Leu	Leu	Ala	Gly
			100					105						110	
Val	Asp	Cys	Phe	Leu	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Phe	Leu	Ala
		115					120					125			
Ile	Cys	Gln	Pro	Leu	Thr	Tyr	Ser	Thr	Arg	Met	Asn	His	Ser	Val	Gln
	130					135					140				
Arg	Ile	Leu	Val	Ala	Ser	Ser	Trp	Ala	Cys	Ser	Phe	Ser	Asn	Ala	Leu
145					150					155					160
Thr	His	Thr	Val	Ala	Thr	Ser	Thr	Leu	Arg	Phe	Cys	Gly	Pro	Asn	Val
			165					170						175	
Ile	Asp	Asn	Phe	Tyr	Cys	Asp	Leu	Pro	Gln	Leu	Phe	Gln	Leu	Ser	Cys
		180						185					190		
Ser	Ser	Thr	Gln	Ile	Asn	Glu	Leu	Leu	Phe	Ala	Leu	Ser	Phe	Ile	
		195					200					205			
Met	Ala	Gly	Thr	Pro	Met	Ala	Leu	Ile	Phe	Thr	Ser	Tyr	Ile	Asn	Val
	210					215					220				
Ala	Ala	Ala	Val	Leu	Arg	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Thr	Val	Val	Ala	Met	Phe	Tyr	Gly
			245						250					255	
Thr	Gly	Met	Phe	Asn	Tyr	Met	Arg	Leu	Gly	Ser	Thr	Lys	Leu	Ser	Asp
		260						265					270		
Lys	Asp	Lys	Ala	Ile	Gly	Ile	Phe	Asn	Thr	Val	Ile	Asn	Pro	Met	Leu
		275					280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Pro	Asp	Val	Gln	Ala	Ala	Leu
	290					295					300				
Trp	Arg	Val	Leu	Thr	Gly	Arg	Arg	Pro	Ala	Ala					
305					310					315					

<210> 1729  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1729  
 Met Glu Asn Cys Thr Lys Val Arg Glu Phe Ile Leu Leu Gly Leu Thr  
 1 5 10 15  
 Asp Asp Pro Gly Leu Gln Val Ser Leu Cys Ile Met Phe Thr Leu Ile  
 20 25 30  
 Tyr Leu Ile Asp Val Val Gly Asn Thr Gly Leu Ile Met Leu Val Leu  
 35 40 45  
 Met Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Cys Asn Leu  
 50 55 60  
 Ser Phe Val Asp Leu Gly Tyr Ser Ser Ala Val Thr Pro Met Val Ile  
 65 70 75 80  
 Ser Glu Phe Phe Ile Val Ser Lys Val Val Ser Tyr Asn Ala Cys Ala  
 85 90 95  
 Ala Gln Met Phe Phe Phe Val Gly Phe Ala Thr Gly Glu Asn Tyr Leu  
 100 105 110  
 Leu Ala Ser Met Ala Tyr Asp Arg Tyr Val Ala Val Cys Lys Pro Leu  
 115 120 125  
 His Tyr Ser Thr Arg Met Thr Thr Ser Val Cys Ile Cys Leu Asn Ile  
 130 135 140  
 Val Ser Tyr Ile Cys Gly Phe Leu Asn Ala Ile Phe His Val Gly Asp  
 145 150 155 160  
 Ile Phe Ser Leu Ser Phe Cys Lys Ser Asn Val Val His His Phe Phe  
 165 170 175  
 Cys Asp Val Pro Ala Val Leu Ala Leu Ser Cys Ser Asp Ile His Leu  
 180 185 190  
 Ser Glu Val Ile Leu Val Phe Leu Ser Thr Phe Asn Val Phe Phe Ala  
 195 200 205  
 Leu Leu Ile Ile Ser Val Ser Tyr Leu Phe Ile Phe Ile Thr Val Leu  
 210 215 220  
 Lys Met Lys Ser Asp Gln Gly His Gln Lys Ala Leu Ser Thr Cys Ala  
 225 230 235 240  
 Ser His Leu Thr Val Val Ser Ile Phe Tyr Ser Thr Val Ile Phe Met  
 245 250 255  
 Tyr Leu Gln Pro Ser Ser Ser His Ser Met Asp Ala Asp Lys Val Ala  
 260 265 270  
 Ser Met Phe Tyr Thr Met Ile Ile Pro Thr Leu Asn Pro Leu Val Tyr  
 275 280 285  
 Ser Leu Arg Asn Lys Glu Val Asn Asn Ala Phe Lys Lys Val Val Glu  
 290 295 300  
 Arg Ala Lys Ile Phe Met  
 305 310

<210> 1730  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1730  
 Met Thr Ile Met Lys Asn Arg Thr Glu Val Thr Glu Phe Ile Leu Leu  
 1 5 10 15  
 Gly Leu Thr Asn Asp Pro Gly Met Gln Leu Pro Leu Phe Ile Thr Phe



Asp	Cys	Ala	Ala	Gln	Met	Phe	Phe	Phe	Gly	Ala	Phe	Ala	Thr	Val	Glu
		100						105					110		
Asn	Tyr	Leu	Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Val	Cys
		115					120					125			
Lys	Pro	Leu	His	Tyr	Ala	Thr	Ile	Met	Thr	Lys	Ser	Met	Tyr	Thr	Trp
		130				135					140				
Leu	Ile	Thr	Gly	Ser	Tyr	Val	Ile	Ser	Phe	Thr	Asn	Ser	Ser	Ile	His
					150					155					160
Ile	Ala	Asp	Ile	Phe	Thr	Leu	Ser	Phe	Cys	Lys	Ser	Asn	Val	Ile	His
			165						170					175	
His	Phe	Phe	Cys	Asp	Val	Pro	Ala	Ile	Met	Ala	Leu	Thr	Cys	Phe	Asp
			180					185					190		
Asn	Gln	Val	Arg	Glu	His	Val	Leu	Leu	Tyr	Ile	Glu	Ser	Leu	Asn	Val
		195					200					205			
Phe	Phe	Ala	Leu	Ile	Val	Ile	Cys	Thr	Ser	Tyr	Met	Leu	Ile	Phe	Val
		210				215					220				
Thr	Ile	Leu	Lys	Met	His	Ser	Ala	Ser	Gly	His	His	Lys	Ala	Ile	Ser
					230					235					240
Thr	Cys	Ala	Ser	His	Phe	Thr	Ala	Val	Ser	Ile	Phe	Tyr	Gly	Thr	Val
				245					250					255	
Ile	Phe	Met	Tyr	Leu	Gln	Pro	Ser	Ser	Asn	His	Ser	Met	Asp	Thr	Asp
			260					265					270		
Lys	Val	Thr	Ser	Val	Phe	Tyr	Thr	Met	Val	Ile	Pro	Met	Leu	Asn	Pro
		275					280					285			
Leu	Val	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Asn	Ala	Phe	Ile	Lys
		290				295					300				
Leu	Ile	Leu	His	Tyr											
															305

<210> 1732  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 1732

Met	Thr	Ser	Met	Glu	Asn	Ile	Thr	Glu	Val	Thr	Glu	Phe	Ile	Leu	Leu
1			5					10						15	
Gly	Leu	Thr	Asp	Asp	Pro	Asn	Leu	Gln	Val	Pro	Leu	Leu	Leu	Ile	Phe
			20					25				30			
Leu	Phe	Ile	Tyr	Leu	Val	Thr	Leu	Ile	Gly	Asn	Gly	Gly	Met	Met	Val
		35					40					45			
Ile	Ile	Phe	Ser	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Ser	Asn	Leu	Ser	Phe	Val	Asp	Leu	Gly	Tyr	Ser	Ser	Ala	Val	Ala	Pro
	65				70					75				80	
Lys	Met	Val	Ala	Ala	Leu	Gln	Ser	Gly	Asn	Lys	Val	Ile	Ser	Tyr	Asn
			85					90					95		
Gly	Cys	Ala	Ala	Gln	Phe	Phe	Phe	Phe	Val	Gly	Phe	Ala	Thr	Val	Glu
			100					105				110			
Cys	Tyr	Leu	Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	His	Ala	Ala	Val	Cys
		115					120					125			
Arg	Pro	Leu	His	Tyr	Thr	Thr	Thr	Met	Thr	Thr	Gly	Val	Cys	Thr	Ile
		130				135					140				
Leu	Thr	Ile	Gly	Ser	Tyr	Thr	Cys	Gly	Phe	Leu	Asn	Ala	Ser	Ile	His
					150					155					160
Ala	Ala	Asp	Thr	Phe	Lys	Leu	Ser	Phe	Cys	Gly	Ser	Asn	Lys	Ile	Asn





305

<210> 1735  
<211> 314  
<212> PRT  
<213> Mus musculus

<400> 1735  
Met Glu Asn Ser Thr Glu Val Thr Glu Phe Ile Leu Thr Gly Leu Thr  
1 5 10 15  
Asp Asn Pro Glu Leu Gln Ile Pro Leu Phe Ile Val Phe Leu Leu Ile  
20 25 30  
Tyr Leu Ser Thr Val Leu Gly Asn Leu Gly Met Val Gly Leu Ile Leu  
35 40 45  
Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser His Leu  
50 55 60  
Ser Leu Val Asp Phe Gly Tyr Ser Ser Ala Val Thr Pro Lys Val Met  
65 70 75 80  
Pro Gly Leu Leu Ser Ile Asp Lys Thr Ile Thr His Asn Ala Cys Gly  
85 90 95  
Thr Gln Phe Phe Phe Val Ser Phe Ile Thr Thr Glu Ser Phe Leu  
100 105 110  
Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Lys Pro Leu  
115 120 125  
Gln Tyr Thr Thr Thr Met Thr Thr Asn Thr Cys Ala Cys Leu Thr Ile  
130 135 140  
Gly Ser Tyr Val Cys Gly Val Leu Asn Ser Ser Ile His Thr Gly Asn  
145 150 155 160  
Ile Phe Arg Leu Ser Phe Cys Lys Phe Asn Val Ile Asp His Phe Phe  
165 170 175  
Cys Asp Ala Pro Pro Leu Leu Ala Leu Ser Cys Ser Asp Thr Ser Val  
180 185 190  
Ser Glu Met Val Ile Leu Phe Val Val Gly Phe Asn Asp Ile Phe Ser  
195 200 205  
Ile Val Val Ile Pro Ile Ser Tyr Leu Phe Ile Phe Ile Thr Ile Leu  
210 215 220  
Arg Met Arg Ser Ser Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys Ala  
225 230 235 240  
Ser His Leu Thr Val Val Phe Ile Phe Tyr Gly Ser Gly Ile Phe Met  
245 250 255  
Tyr Leu Gln Pro Ser Ser Ser His Thr Met Gly Thr Asp Lys Met Ala  
260 265 270  
Ser Val Phe Tyr Thr Met Ile Ile Pro Met Leu Asn Pro Leu Val Tyr  
275 280 285  
Ser Leu Arg Asn Lys Glu Val Lys Ser Ala Phe Lys Lys Ala Val Glu  
290 295 300  
Lys Ala Lys Ile Ser Leu Ala Phe Thr Phe  
305 310

<210> 1736  
<211> 312  
<212> PRT  
<213> Mus musculus

<400> 1736



Met	Glu	Asn	Arg	Thr	Glu	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Val	Thr
1				5					10					15	
Asn	Ala	Pro	Ala	Leu	Gln	Thr	Pro	Leu	Phe	Ile	Leu	Phe	Thr	Leu	Ile
			20					25					30		
Tyr	Phe	Ile	Asn	Met	Thr	Gly	Asn	Leu	Gly	Met	Leu	Val	Leu	Ile	Leu
		35					40					45			
Trp	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Ile	Phe	Leu	Gly	Asn	Leu
	50					55					60				
Ser	Leu	Val	Asp	Ile	Phe	Tyr	Ser	Ser	Ala	Val	Thr	Pro	Thr	Val	Val
65					70					75					80
Ala	Gly	Leu	Leu	Val	Gly	Asn	Gln	Ala	Ile	Ser	Tyr	Asn	Ala	Cys	Ala
				85					90					95	
Ala	Gln	Met	Phe	Leu	Phe	Val	Val	Phe	Ala	Thr	Ala	Glu	Asn	Phe	Leu
			100					105					110		
Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Lys	Pro	Leu
		115				120						125			
His	Tyr	Thr	Thr	Thr	Met	Thr	Pro	Thr	Thr	Cys	Ala	Cys	Leu	Thr	Met
	130					135					140				
Ala	Cys	Tyr	Ala	Gly	Gly	Phe	Leu	Asn	Ser	Ser	Ile	His	Thr	Gly	Asp
145					150					155					160
Thr	Phe	Arg	Leu	Tyr	Phe	Cys	Lys	Ser	Asn	Val	Val	His	His	Phe	Phe
			165						170					175	
Cys	Asp	Val	Pro	Ala	Val	Met	Val	Leu	Ser	Cys	Ser	Asp	Arg	His	Ile
		180						185				190			
Ser	Glu	Met	Val	Leu	Leu	Tyr	Gly	Ala	Ser	Phe	Val	Ile	Cys	Ser	Ala
	195						200					205			
Leu	Leu	Val	Ile	Leu	Ile	Ser	Tyr	Ile	Phe	Ile	Phe	Ile	Thr	Ile	Phe
	210					215					220				
Lys	Met	Arg	Ser	Ala	Ala	Gly	Tyr	Gln	Lys	Ala	Met	Ser	Thr	Cys	Val
225					230					235					240
Ser	His	Phe	Thr	Ala	Val	Ser	Ile	Phe	Tyr	Gly	Thr	Leu	Ile	Phe	Met
			245						250					255	
Tyr	Leu	Gln	Pro	Ser	Ser	Ser	His	Ser	Met	Asp	Thr	Asp	Lys	Ile	Val
		260						265					270		
Ser	Val	Phe	Tyr	Thr	Met	Val	Ile	Pro	Met	Leu	Asn	Pro	Val	Val	Tyr
	275						280					285			
Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Ser	Ala	Phe	Lys	Lys	Val	Val	Glu
	290					295					300				
Lys	Ala	Lys	Tyr	Thr	Leu	Gly	Phe								
305					310										

<210> 1737  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1737

Met	Glu	Asn	Arg	Thr	Glu	Met	Thr	Gly	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Asn	Ala	Pro	Glu	Leu	Arg	Ala	Pro	Leu	Phe	Ile	Ile	Ile	Ser	Phe	Ile
			20					25					30		
Tyr	Phe	Thr	Asn	Val	Ile	Gly	Asn	Leu	Gly	Met	Ile	Val	Leu	Ile	Leu
		35					40					45			
Trp	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Cys	Phe	Leu	Ala	Asn	Leu
	50					55					60				
Ser	Leu	Val	Asp	Ile	Phe	Tyr	Ser	Ser	Ala	Val	Ala	Pro	Thr	Ile	Leu

65					70					75				80	
Ala	Gly	Leu	Leu	Val	Gly	Asn	Ile	Val	Val	Ser	Tyr	Asn	Ala	Cys	Val
				85					90					95	
Ala	Gln	Met	Ile	Ser	Phe	Ser	Ala	Phe	Val	Thr	Thr	Glu	Asp	Leu	Leu
			100					105					110		
Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Thr	Thr	Ile	Met	Thr	Pro	Thr	Val	Cys	Ile	Cys	Leu	Ile	Met
	130					135					140				
Ala	Cys	Tyr	Ala	Gly	Gly	Phe	Leu	Asn	Ser	Ser	Ile	His	Thr	Gly	Asp
145					150					155					160
Thr	Phe	Arg	Leu	Ser	Phe	Cys	Gly	Ser	Asn	Ala	Val	His	His	Phe	Phe
				165					170					175	
Cys	Asp	Val	Pro	Ala	Val	Met	Thr	Leu	Ser	Cys	Ser	Asp	Arg	His	Val
			180					185					190		
Ser	Glu	Ile	Val	Leu	Ile	Tyr	Gly	Ala	Gly	Phe	Ile	Ile	Cys	Ser	Ala
	195						200					205			
Leu	Leu	Val	Ile	Leu	Ile	Ser	Tyr	Thr	Phe	Ile	Phe	Ile	Thr	Ile	Phe
	210					215					220				
Arg	Met	Arg	Ser	Ala	Ala	Gly	Tyr	Gln	Lys	Ala	Met	Ser	Thr	Cys	Val
225					230					235					240
Ser	His	Phe	Thr	Ala	Val	Ser	Ile	Phe	Tyr	Gly	Thr	Val	Ile	Phe	Met
				245					250					255	
Tyr	Leu	Gln	Pro	Thr	Ser	Ser	His	Ser	Met	Asp	Thr	Asp	Lys	Thr	Val
			260					265					270		
Ser	Val	Phe	Tyr	Thr	Met	Val	Ile	Pro	Met	Leu	Asn	Pro	Met	Val	Tyr
		275				280						285			
Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Ser	Ala	Phe	Lys	Lys	Val	Val	Glu
	290					295					300				
Lys	Ala	Lys	Tyr	Ser	Leu	Gly	Phe								
305					310										

<210> 1738  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1738

Met	Met	Gln	Asn	Ile	Ser	Glu	Leu	Ser	Glu	Phe	Ile	Leu	Val	Gly	Leu
1				5					10					15	
Thr	Asp	Ala	Pro	Phe	Leu	Gln	Thr	Pro	Leu	Phe	Ile	Ile	Phe	Thr	Leu
			20					25					30		
Ile	Tyr	Leu	Thr	Thr	Leu	Phe	Gly	Asn	Leu	Gly	Met	Ile	Met	Leu	Ile
		35					40					45			
Leu	Leu	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn
	50					55					60				
Leu	Ser	Leu	Val	Asp	Cys	Val	Tyr	Ala	Ser	Ala	Val	Thr	Pro	Lys	Val
65					70					75					80
Met	Glu	Gly	Phe	Leu	Thr	Gly	Asn	Lys	Ile	Ile	Ser	Tyr	Asn	Ala	Cys
			85						90					95	
Ala	Ala	Gln	Met	Phe	Phe	Phe	Val	Ala	Phe	Ala	Ile	Thr	Glu	Asn	Phe
			100					105					110		
Ile	Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	His	Ala	Ala	Val	Cys	Lys	Pro
		115					120					125			
Leu	His	Tyr	Ser	Thr	Thr	Met	Thr	Thr	Thr	Ile	Cys	Val	Leu	Leu	Leu
	130					135					140				

Val	Gly	Ser	Tyr	Leu	Ser	Gly	Leu	Leu	His	Ser	Ser	Ile	His	Val	Ser
145					150					155					160
Phe	Thr	Phe	His	Leu	Ser	Phe	Cys	Arg	Ser	Asn	Val	Val	Asn	His	Phe
				165					170						175
Phe	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Ala	Val	Ser	Cys	Ser	Ser	Ile	Arg
			180					185					190		
Thr	Asn	Glu	Ile	Ile	Leu	Phe	Met	Leu	Ala	Gly	Phe	Asp	Val	Ala	Phe
		195					200					205			
Ser	Leu	Leu	Val	Ile	Leu	Thr	Ser	Tyr	Leu	Leu	Ile	Ser	Val	Ala	Ile
	210					215					220				
Val	Arg	Met	Arg	Ser	Ala	Glu	Ser	Arg	Lys	Lys	Ala	Ile	Ser	Thr	Cys
225					230					235					240
Ala	Ser	His	Leu	Thr	Thr	Val	Ser	Ile	Phe	Tyr	Gly	Thr	Ile	Ile	Phe
				245					250						255
Met	Tyr	Leu	Gln	Pro	Ser	Ser	Asn	His	Ser	Met	Asp	Thr	Asp	Lys	Leu
			260					265					270		
Ala	Ser	Val	Phe	Tyr	Thr	Met	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Val
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Asn	Ala	Phe	Lys	Lys	Val	Ala
	290					295					300				
Gly	Lys	Ala	Val	Leu	Ser	Leu	Gly	Leu	Ile	Asn					
305					310					315					

<210> 1739  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1739

Met	Ser	Leu	Met	Glu	Asn	Asn	Thr	Asp	Val	Thr	Gln	Phe	Leu	Leu	Leu
1				5					10					15	
Gly	Leu	Thr	Asp	Asp	Pro	Gly	Leu	Gln	Phe	Pro	Leu	Phe	Ile	Thr	Phe
			20					25					30		
Leu	Leu	Ile	Tyr	Thr	Ile	Thr	Leu	Val	Gly	Asn	Leu	Gly	Met	Ile	Leu
		35					40					45			
Leu	Ile	Val	Leu	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Gly	Asn	Leu	Ser	Leu	Val	Asp	Phe	Cys	Tyr	Ser	Ser	Ala	Val	Thr	Pro
65					70					75					80
Thr	Val	Met	Thr	Gly	Leu	Ile	Gly	Glu	Lys	Ile	Ile	Ser	Tyr	Asn	Asp
			85						90					95	
Cys	Ala	Ala	Gln	Met	Phe	Phe	Phe	Val	Ala	Phe	Ala	Thr	Val	Glu	Asn
			100					105					110		
Tyr	Leu	Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Lys
		115					120					125			
Pro	Leu	His	Tyr	Ala	Thr	Thr	Met	Thr	Ala	Asn	Val	Cys	Ile	Cys	Leu
	130					135					140				
Cys	Ile	Gly	Ser	Tyr	Thr	Cys	Gly	Phe	Leu	Asn	Ala	Ser	Ile	His	Ile
145					150					155					160
Gly	Asp	Thr	Phe	Ser	Leu	Ser	Phe	Cys	Arg	Ser	Asn	Val	Val	His	His
			165						170					175	
Phe	Phe	Cys	Asp	Ile	Pro	Ala	Val	Met	Val	Leu	Ser	Cys	Ser	Asp	Arg
			180					185					190		
His	Val	Ser	Glu	Leu	Val	Leu	Val	Tyr	Val	Val	Ser	Phe	Asn	Ile	Phe
		195					200					205			
Phe	Ala	Leu	Ser	Val	Ile	Trp	Ile	Ser	Tyr	Ile	Phe	Ile	Phe	Ile	Thr

210		215		220
Ile Cys Lys Met His Ser Ser Ser Gly Tyr Arg Lys Ala Ile Ser Thr				
225		230		240
Cys Ala Ser His Phe Ile Ala Val Ser Ile Phe Tyr Gly Thr Ile Ile				
	245		250	255
Phe Met Tyr Leu Gln Pro Ser Ser Ser His Ser Met Asp Thr Asp Lys				
	260	265		270
Ile Ala Ser Val Phe Tyr Thr Met Ile Ile Pro Met Leu Asn Pro Leu				
	275	280		285
Val Tyr Ser Met Arg Asn Lys Glu Val Lys Ser Ala Phe Thr Lys Val				
	290	295		300
Leu Gln Val Ala Lys				
305				

<210> 1740  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1740

Met Thr Ser Leu Asn Asn Leu Thr Glu Val Thr His Phe Leu Leu Leu				
1	5	10	15	
Gly Leu Thr Asp Asp Pro Gly Leu Gln Leu Pro Leu Phe Ile Ile Phe				
	20	25	30	
Leu Leu Ile Tyr Ile Ile Thr Leu Val Gly Asn Leu Gly Met Ile Leu				
	35	40	45	
Leu Ile Leu Leu Asp Ser Arg Leu His Ile Pro Met Tyr Phe Phe Leu				
	50	55	60	
Ala Asn Leu Ser Leu Val Asp Val Ile Tyr Ser Ser Ala Val Thr Pro				
65	70	75	80	
Lys Val Met Ala Gly Leu Ile Ile Gly Asp Asn Leu Ile Ser Tyr Asn				
	85	90	95	
Glu Cys Ala Ala Gln Met Phe Phe Phe Ala Ala Phe Ala Thr Val Glu				
	100	105	110	
Asn Tyr Leu Leu Thr Ser Met Ala Cys Asp Arg Tyr Ala Ala Val Cys				
	115	120	125	
Lys Pro Leu Tyr Tyr Ala Thr Thr Met Thr Pro Ser Val Cys Met Cys				
	130	135	140	
Phe Ile Met Gly Cys Tyr Ala Leu Gly Phe Leu Asn Ala Ser Val Tyr				
145	150	155	160	
Leu Gly Asn Thr Phe Ser Leu Ser Phe Cys Lys Ser Asn Val Val His				
	165	170	175	
His Phe Phe Cys Asp Met Pro Ala Ile Met Ala Leu Ser Cys Ser Asp				
	180	185	190	
Arg His Val Asn Glu Leu Val Leu Ile Tyr Gln Ala Ser Phe Ile Ile				
	195	200	205	
Phe Phe Ala Leu Ile Ile Ile Leu Ile Ser Tyr Ile Ile Ile Phe Ile				
	210	215	220	
Thr Ile Leu Lys Met His Ser Glu Ala Gly Val Gln Lys Ala Leu Ser				
225	230	235	240	
Thr Cys Ala Ser His Phe Thr Ala Val Phe Ile Phe Tyr Gly Thr Thr				
	245	250	255	
Ile Phe Met Tyr Leu Gln Pro Ser Ser Arg His Ala Met Asp Thr Asp				
	260	265	270	
Lys Ile Val Ser Val Phe Tyr Thr Met Val Ile Pro Met Leu Asn Pro				
	275	280	285	

Leu Val Tyr Ser Leu Arg Asn Lys Glu Val Lys Ser Ala Phe Met Lys  
 290 295 300  
 Val Val Leu Lys Glu Lys  
 305 310

<210> 1741  
 <211> 307  
 <212> PRT  
 <213> Mus musculus

<400> 1741  
 Met Glu Asn Thr Thr Glu Val Thr Trp Phe Val Leu Leu Gly Leu Thr  
 1 5 10 15  
 Asn Asp Pro Gln Leu Gln Leu Pro Leu Phe Ile Thr Phe Leu Leu Ile  
 20 25 30  
 Tyr Ile Ile Thr Leu Val Gly Asn Leu Gly Ile Ile Leu Leu Ile Leu  
 35 40 45  
 Leu Asp Ser Arg Leu His Thr Pro Met Tyr Ile Phe Leu Ser Asn Leu  
 50 55 60  
 Ser Leu Val Asp Phe Cys Tyr Ser Ser Thr Ile Thr Pro Lys Val Met  
 65 70 75 80  
 Ala Gly Phe Leu Thr Gly Asp Arg Ile Ile Ser Tyr Asn Ala Cys Ala  
 85 90 95  
 Ser Gln Met Phe Phe Phe Ala His Phe Ala Asp Val Glu Ser Tyr Leu  
 100 105 110  
 Leu Val Ser Met Ala Tyr Asp His Tyr Val Ala Val Cys Lys Pro Leu  
 115 120 125  
 His Tyr Ala Thr Thr Met Thr Thr His Leu Cys Val Phe Leu Val Ile  
 130 135 140  
 Gly Cys Tyr Ile Cys Gly Phe Leu Asn Ala Ser Ile Tyr Thr Val Asp  
 145 150 155 160  
 Val Phe Ser Leu Ser Phe Cys Glu Ser Asn Val Ile His His Phe Phe  
 165 170 175  
 Cys Asp Val Leu Ala Val Met Ile Ile Ser Arg Ser Asp Lys Tyr Ile  
 180 185 190  
 Asn Glu Leu Val Leu Ile Ser Val Ala Ser Phe Asn Ile Ile Phe Ser  
 195 200 205  
 Leu Ile Leu Ile Leu Ile Ser Tyr Met Phe Ile Phe Thr Asn Ile Leu  
 210 215 220  
 Lys Ile Asn Ser Ser Glu Gly Tyr Arg Lys Ala Leu Ser Thr Cys Thr  
 225 230 235 240  
 Ser His Phe Thr Ala Val Phe Ile Tyr Tyr Gly Thr Val Ile Phe Met  
 245 250 255  
 Tyr Leu Gln Pro Thr Ser Ser His Ser Met Asp Thr Asp Lys Ile Val  
 260 265 270  
 Ser Val Phe Tyr Ser Ile Val Ile Pro Met Leu Asn Pro Leu Val Tyr  
 275 280 285  
 Ser Met Arg Asn Lys Glu Val Lys Asn Ala Phe Thr Lys Val Val Leu  
 290 295 300  
 Arg Ser Arg  
 305

<210> 1742  
 <211> 307  
 <212> PRT

<213> Mus musculus

<400> 1742

```
Met Glu Asn Arg Thr Glu Val Arg Cys Phe Ile Leu Val Gly Leu Thr
 1      5      10      15
Asn Asp Pro Gly Leu Gln Leu Pro Leu Phe Ile Thr Phe Leu Ile
 20      25      30
Tyr Ile Ile Thr Leu Ile Gly Asn Leu Gly Leu Ile Leu Leu Ile Leu
 35      40      45
Leu Asp Ser Arg Leu His Thr Pro Met Tyr Ile Phe Leu Gly Asn Leu
 50      55      60
Ser Leu Val Asp Phe Cys Tyr Ser Ser Thr Val Thr Pro Lys Val Ile
 65      70      75      80
Ala Gly Phe Leu Met Gly Asp Lys Ile Met Ser Tyr Asn Ala Cys Ala
 85      90      95
Ser Gln Met Phe Phe Phe Ala Asn Phe Ala Asp Val Glu Asn Tyr Leu
100      105      110
Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Val Cys Lys Pro Leu
115      120      125
His Tyr Ala Thr Thr Met Thr Thr His Met Cys Val Cys Leu Leu Ile
130      135      140
Gly Cys Tyr Ile Cys Gly Phe Leu Asn Ala Ser Ile Tyr Thr Val Asp
145      150      155      160
Ala Leu Ser Leu Ser Phe Cys Glu Ser Asn Val Val His His Phe Phe
165      170      175
Cys Asp Val Leu Ala Val Met Ile Ile Ser Cys Ser Asp Arg His Val
180      185      190
Asn Glu Leu Ile Phe Val Tyr Val Ala Ser Phe Asn Ile Phe Phe Ala
195      200      205
Leu Ile Leu Ile Ile Ile Ser Tyr Thr Phe Ile Phe Thr Asn Ile Leu
210      215      220
Lys Leu Gln Ser Ala Ala Gly Tyr Arg Lys Ala Phe Phe Thr Cys Ala
225      230      235      240
Ser His Phe Thr Ala Val Ser Ile Phe Tyr Gly Thr Ile Ile Phe Met
245      250      255
Tyr Leu Gln Pro Ser Ser Ser His Ser Met Asp Thr Asp Lys Ile Ala
260      265      270
Ser Val Phe Tyr Thr Met Val Ile Pro Met Leu Asn Pro Leu Val Tyr
275      280      285
Ser Leu Arg Asn Lys Asp Val Lys Ser Ala Phe Thr Lys Ile Ile Leu
290      295      300
Arg Ser Gly
305
```

<210> 1743

<211> 308

<212> PRT

<213> Mus musculus

<400> 1743

```
Met Met Glu Asn Gln Thr Glu Val Thr Glu Phe Ile Leu Leu Gly Leu
 1      5      10      15
Thr Asp Asp Pro Glu Leu Gln Ile Pro Leu Phe Ile Thr Phe Leu Ala
 20      25      30
Ile Tyr Thr Ile Thr Val Val Gly Asn Leu Gly Met Ile Leu Leu Ile
 35      40      45
```

Leu Met Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Gly Asn  
 50 55 60  
 Leu Ser Leu Val Asp Phe Cys Tyr Ser Ser Ala Val Thr Pro Lys Val  
 65 70 75 80  
 Met Ser Gly Phe Leu Ile Gly Asp Lys Val Ile Ser Tyr Asn Asp Cys  
 85 90 95  
 Ala Ala Gln Met Phe Ile Phe Ala Ala Phe Ile Thr Val Glu Asn Tyr  
 100 105 110  
 Leu Leu Ala Ser Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Lys Pro  
 115 120 125  
 Leu His Tyr Thr Thr Thr Met Thr Thr Ser Val Cys Thr Trp Leu Ile  
 130 135 140  
 Ile Gly Ser Tyr Val Ile Gly Phe Met Asn Ala Ser Ile His Ile Gly  
 145 150 155 160  
 Asp Thr Phe His Leu Tyr Phe Cys Glu Ser Asn Val Val His His Phe  
 165 170 175  
 Phe Cys Asp Ile Pro Ala Val Met Val Leu Ser Cys Ser Asp Arg Tyr  
 180 185 190  
 Ala Ser Glu Leu Val Leu Val Tyr Ile Val Ser Phe His Ile Phe Phe  
 195 200 205  
 Ala Phe Ile Val Ile Trp Ile Ser Tyr Val Phe Ile Phe Val Thr Ile  
 210 215 220  
 Val Lys Met Gln Ser Ala Ala Gly His His Lys Ala Ile Ser Thr Cys  
 225 230 235 240  
 Ala Ser His Phe Thr Ala Val Ser Ile Phe Tyr Gly Thr Ser Ile Phe  
 245 250 255  
 Met Tyr Val Gln Pro Ser Ser Asn His Ser Met Asp Thr Asp Lys Ile  
 260 265 270  
 Ala Ser Val Phe Tyr Thr Met Val Ile Pro Met Leu Asn Pro Leu Val  
 275 280 285  
 Tyr Ser Leu Arg Asn Lys Glu Val Lys Ser Ala Leu Lys Lys Ile Ile  
 290 295 300  
 Leu Gln Thr Thr  
 305

<210> 1744  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1744  
 Met Glu Asn Ile Ser Glu Val Thr Glu Phe Ile Leu Val Gly Ile Thr  
 1 5 10 15  
 Asp Ala Pro Glu Leu Gln Ile Pro Leu Phe Ile Ile Phe Thr Leu Ile  
 20 25 30  
 Tyr Leu Ile Ala Leu Phe Gly Asn Leu Gly Met Ile Met Leu Ile Leu  
 35 40 45  
 Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Cys Asn Leu  
 50 55 60  
 Ser Leu Val Asp Cys Val Tyr Ala Ser Ala Val Thr Pro Lys Val Met  
 65 70 75 80  
 Glu Gly Phe Leu Thr Gly Asn Lys Ile Ile Ser Tyr Asn Ala Cys Ala  
 85 90 95  
 Ala Gln Met Phe Phe Phe Val Ala Phe Ile Ala Ile Glu Ser Leu Ile  
 100 105 110  
 Leu Ala Ser Met Ala Tyr Asp Arg His Ala Ala Val Cys Asn Pro Leu

115	120	125
His Tyr Thr Thr Ile Met Thr Ser Thr Thr Cys Ile Leu Ile Val Thr		
130	135	140
Cys Cys Tyr Met Cys Gly Ile Leu Gln Ser Ser Ile His Val Ala Leu		
145	150	155
Ala Phe Cys Leu Ser Phe Cys Asn Ser Asn Val Ile Asn His Phe Phe		
165	170	175
Cys Asp Ile Pro Pro Leu Leu Asp Ile Ser Cys Ser Asp Thr Tyr Thr		
180	185	190
Asn Glu Ile Thr Val Leu Ile Leu Gly Thr Cys Asp Gly Ile Leu Thr		
195	200	205
Leu Leu Val Ile Leu Asn Thr Tyr Leu Leu Ile Phe Ile Ala Ile Leu		
210	215	220
Arg Met Arg Ser Val Glu Ala Gln Arg Lys Ala Phe Ser Thr Cys Ala		
225	230	235
Ser His Leu Ile Thr Val Ser Ile Phe Phe Gly Ser Thr Leu Phe Met		
245	250	255
Tyr Leu Gln Pro Ser Ser Asn His Ser Met Asn Thr Asp Lys Ile Ala		
260	265	270
Ser Val Phe Tyr Thr Met Val Ile Pro Met Leu Asn Pro Val Val Tyr		
275	280	285
Ser Leu Arg Asn Lys Glu Val Lys Asn Ala Phe Lys Lys Val Val Gly		
290	295	300
Lys Leu Met Thr Ser Leu Gln Leu Val Asn		
305	310	

<210> 1745  
 <211> 307  
 <212> PRT  
 <213> Mus musculus

<400> 1745

Met Glu Asn Arg Thr Glu Val Thr Trp Phe Ile Leu Val Gly Leu Thr	
1	5
Asn Asp Ser Gln Leu Gln Leu Pro Leu Phe Ile Thr Phe Leu Leu Ile	
20	25
Tyr Thr Val Thr Phe Val Gly Asn Leu Gly Leu Ile Leu Leu Ile Leu	
35	40
Leu Asp Ser Arg Leu His Thr Pro Met Tyr Ile Phe Leu Ser Asn Leu	
50	55
Ser Leu Val Asp Phe Cys Tyr Ser Ser Thr Ile Thr Pro Lys Val Ile	
65	70
Ala Gly Ile Leu Thr Gly Asp Lys Ile Met Ser Tyr Asn Ala Cys Ala	
85	90
Ser Gln Met Phe Phe Phe Ala Asn Phe Ala Asn Val Glu Asn Tyr Leu	
100	105
Leu Val Ser Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Lys Pro Leu	
115	120
His Tyr Ala Thr Thr Met Thr Lys Arg Val Cys Ala Ser Leu Val Ile	
130	135
Gly Cys Tyr Ile Cys Gly Leu Leu Asn Ala Ser Ile Tyr Thr Met Asp	
145	150
Ala Leu Ser Leu Ser Phe Cys Glu Ser Asn Val Val His His Phe Phe	
165	170
Cys Asp Val Leu Ala Ile Met Thr Thr Ser Cys Ser Asp Arg His Val	
180	185
	190



Asn Glu Leu Ile Leu Val Tyr Leu Ala Ser Phe Asn Val Phe Phe Ala  
 195 200 205  
 Leu Ile Leu Ile Leu Ile Ser Tyr Met Phe Ile Phe Thr Asn Ile Leu  
 210 215 220  
 Lys Met His Ser Ala Ser Gly Tyr Cys Lys Ala Ile Ser Thr Cys Ala  
 225 230 235 240  
 Ser His Leu Thr Ala Val Phe Ile Phe Tyr Gly Thr Ile Ile Phe Met  
 245 250 255  
 Tyr Leu Gln Pro Ser Ser His His Ser Met Asp Thr Asp Lys Ile Ala  
 260 265 270  
 Ser Val Phe Tyr Thr Met Ile Ile Pro Met Leu Asn Pro Leu Val Tyr  
 275 280 285  
 Ser Leu Arg Asn Lys Asp Val Lys Ser Ala Phe Thr Lys Ile Val Leu  
 290 295 300  
 Arg Ser Gly  
 305

<210> 1746  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1746  
 Met Ile Ala Arg Gly Asn Ser Thr Glu Ile Thr Gln Phe Ile Leu Leu  
 1 5 10 15  
 Gly Phe Thr Asp Leu Pro Ile Ile Ile Leu Leu Phe Val Thr Phe  
 20 25 30  
 Leu Leu Ile Tyr Ile Thr Thr Leu Thr Trp Asn Leu Ser Leu Ile Val  
 35 40 45  
 Leu Ile Arg Met Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Cys Asn Leu Ser Ile Ile Asp Leu Cys Tyr Val Thr Ser Thr Val Pro  
 65 70 75 80  
 Lys Met Leu Ser Asn Phe Phe Gln Glu Arg Gln Thr Asn Ser Phe Val  
 85 90 95  
 Gly Cys Ile Val Gln Asn Phe Ile Phe Ser Thr Met Gly Leu Ser Glu  
 100 105 110  
 Ser Cys Leu Met Ala Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys  
 115 120 125  
 Asn Pro Leu Leu Tyr Ala Ser Ile Met Ser Pro Thr Leu Cys Val Leu  
 130 135 140  
 Met Val Leu Ala Ser Tyr Leu Ser Gly Leu Thr Ala Ser Leu Leu Gln  
 145 150 155 160  
 Leu Phe Ala Leu Leu Arg Leu His Phe Cys Gly Thr Asn Val Ile Lys  
 165 170 175  
 His Phe Phe Cys Asp Met Pro Gln Leu Leu Val Leu Ser Cys Thr Asp  
 180 185 190  
 Thr Phe Phe Val Gln Val Leu Thr Ala Ile Leu Thr Met Ile Phe Gly  
 195 200 205  
 Phe Val Asn Met Leu Val Ile Met Ile Ser Tyr Val Tyr Ile Val Leu  
 210 215 220  
 Ser Ile Leu Lys Ile Thr Ser Ala Lys Gly Arg Ser Lys Ala Phe Asn  
 225 230 235 240  
 Thr Cys Ala Ser His Leu Thr Ala Val Ser Leu Phe Tyr Thr Ser Ser  
 245 250 255  
 Ile Phe Val Tyr Leu Ser Ser Ser Ser Gly Gly Ser Ser Ser Phe Asp



<210> 1748  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1748  
 Met Ile Gly Glu Arg Asn Ile Thr Lys Ile Thr Gln Phe Ile Leu Leu  
 1 5 10 15  
 Gly Phe Ser Asp Phe Pro Arg Ile Thr Val Pro Leu Phe Val Met Phe  
 20 25 30  
 Leu Met Ile Tyr Thr Leu Ala Val Thr Trp Asn Phe Ser Leu Ile Ala  
 35 40 45  
 Leu Ile Arg Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Ser Asn Leu Ser Ile Ile Asp Ile Cys Tyr Ile Thr Ser Thr Ala Pro  
 65 70 75 80  
 Lys Met Leu Ser Asn Phe Phe Gln Glu Lys Gln Thr Ile Ser Phe Val  
 85 90 95  
 Gly Cys Ile Val Gln Tyr Phe Ile Leu Ser Thr Met Gly Leu Thr Glu  
 100 105 110  
 Ser Cys Leu Met Thr Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys  
 115 120 125  
 Asn Pro Leu Leu Tyr Ser Ser Val Met Ser Pro Thr Leu Cys Ala Gln  
 130 135 140  
 Met Val Met Gly Ser Tyr Thr Ala Gly Leu Thr Gly Ser Val Ser Gln  
 145 150 155 160  
 Ile Cys Ala Leu Leu Gln Leu Tyr Phe Cys Gly Pro Asn Val Ile Arg  
 165 170 175  
 His Phe Phe Cys Asp Ile Ser Gln Leu Leu Asn Leu Ser Cys Ser Asp  
 180 185 190  
 Ala Phe Phe Val Gln Val Leu Leu Ala Ile Leu Thr Met Cys Phe Gly  
 195 200 205  
 Ile Ala Asn Ala Leu Ala Thr Met Leu Ser Tyr Gly Phe Ile Val Leu  
 210 215 220  
 Ser Ile Leu Lys Ile Thr Ser Ala Lys Gly Arg Ser Lys Ala Phe Asn  
 225 230 235 240  
 Thr Cys Ala Ser His Leu Thr Ala Val Ser Leu Phe Tyr Ser Thr Ala  
 245 250 255  
 Ile Phe Val Tyr Leu Arg Ser Ser Ser Gly Gly Ser Ser Ser Phe Asp  
 260 265 270  
 Arg Phe Ala Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro  
 275 280 285  
 Leu Ile Tyr Ser Leu Arg Asn Lys Glu Ile Lys Asp Ala Met Lys Arg  
 290 295 300  
 Leu Gln Lys Lys Lys Ile Cys Ser  
 305 310

<210> 1749  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1749  
 Met Ile Gly Gly Arg Asn Ile Thr Lys Ile Thr Gln Phe Ile Leu Leu  
 1 5 10 15  
 Gly Phe Ser Asp Phe Pro Gln Ile Thr Ala Leu Leu Phe Val Met Phe



Gly	Cys	Thr	Met	Gln	Tyr	Phe	Ile	Phe	Ser	Ser	Leu	Gly	Leu	Ser	Glu
			100					105					110		
Cys	Cys	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys
		115					120					125			
Asn	Pro	Leu	Leu	Tyr	Thr	Ala	Ile	Met	Ser	Pro	Ser	Leu	Cys	Val	His
	130					135					140				
Met	Val	Val	Gly	Ala	Tyr	Ser	Thr	Gly	Leu	Leu	Gly	Ser	Leu	Ile	Gln
145					150					155					160
Leu	Cys	Ala	Ile	Leu	Gln	Leu	His	Phe	Cys	Gly	Pro	Asn	Ile	Ile	Asn
			165					170					175		
His	Phe	Phe	Cys	Asp	Leu	Pro	Gln	Leu	Leu	Val	Leu	Ser	Cys	Ser	Glu
			180					185					190		
Thr	Phe	Pro	Leu	Gln	Val	Leu	Lys	Phe	Val	Ile	Ala	Val	Ile	Phe	Gly
		195					200					205			
Val	Ala	Ser	Val	Ile	Val	Ile	Leu	Ile	Ser	Tyr	Gly	Tyr	Ile	Ile	Gly
	210					215					220				
Thr	Ile	Leu	Asn	Ile	Ser	Ser	Val	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Asn
225					230					235					240
Thr	Cys	Ala	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Phe	Phe	Gly	Ser	Gly
			245					250					255		
Leu	Phe	Val	Tyr	Met	Arg	Pro	Ser	Ser	Asn	Ser	Ser	Gln	Gly	Tyr	Asp
		260					265					270			
Lys	Met	Ala	Ser	Val	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro
	275						280				285				
Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Ile	Lys	Asp	Ala	Leu	Gln	Arg
	290					295					300				
Cys	Lys	Asn	Lys	Cys	Phe	Ser	Gln	Cys	His	Cys					
305					310					315					

<210> 1751  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 1751

Met	Ala	Val	Gly	Arg	Asn	Ile	Ser	Val	Val	Thr	Asn	Phe	Ile	Leu	Leu
1			5					10					15		
Gly	Phe	Leu	Glu	Arg	Pro	Gln	Leu	Gln	Ile	Val	Leu	Phe	Val	Leu	Phe
		20					25					30			
Leu	Gly	Ile	Tyr	Leu	Val	Thr	Leu	Ala	Gly	Asn	Leu	Gly	Leu	Ile	Val
	35					40					45				
Leu	Ile	Arg	Met	Asp	Ser	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu
	50				55					60					
Ser	Asn	Leu	Ser	Phe	Val	Asp	Val	Ser	Tyr	Thr	Ser	Ser	Ile	Ala	Pro
65				70					75					80	
Lys	Met	Leu	Cys	Asp	Phe	Phe	Arg	Glu	Gln	Lys	Ser	Ile	Thr	Phe	Ile
			85					90					95		
Gly	Cys	Ala	Ile	Gln	Leu	Phe	Phe	Phe	Val	Gly	Met	Gly	Gly	Thr	Glu
		100					105					110			
Cys	Cys	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Ser
	115					120						125			
Asn	Pro	Leu	Leu	Tyr	Pro	Ser	Leu	Met	Ser	Pro	Thr	Ile	Cys	Val	Gly
	130					135					140				
Met	Ala	Ile	Thr	Val	Tyr	Thr	Gly	Gly	Phe	Leu	Thr	Gly	Leu	Ile	Gln
145					150					155					160
Thr	Ser	Ser	Ile	Phe	Arg	Leu	His	Phe	Cys	Gly	Pro	Arg	Val	Ile	Asn

				165					170					175			
His	Phe	Phe	Cys	Asp	Leu	Pro	Pro	Leu	Met	Ser	Leu	Ser	Cys	Ser	Ser		
			180					185					190				
Thr	Phe	Phe	Ser	Gln	Val	Val	Asn	Phe	Leu	Val	Val	Cys	Val	Val	Gly		
		195					200					205					
Gly	Ala	Ser	Ala	Leu	Val	Val	Leu	Val	Ser	Tyr	Gly	Tyr	Ile	Ile	Ala		
	210					215					220						
Ala	Val	Met	Arg	Ile	His	Ser	Thr	His	Gly	Gln	Met	Lys	Ala	Phe	Asn		
	225				230					235					240		
Thr	Cys	Ala	Ser	Tyr	Leu	Thr	Thr	Val	Ile	Leu	Phe	Tyr	Gly	Ser	Gly		
				245					250						255		
Leu	Phe	Ser	Tyr	Leu	His	Ser	Asn	Ala	Gly	Tyr	Ser	Gln	Asp	Lys	Asn		
		260					265						270				
Lys	Val	Val	Ser	Met	Phe	Tyr	Gly	Ala	Val	Ile	Pro	Met	Leu	Asn	Pro		
	275						280					285					
Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Ile	Lys	Glu	Ala	Leu	Lys	Lys		
	290					295					300						
Leu	Lys	Lys	Arg	Lys	Lys	Gln	Met	Ser	Cys	Leu	Cys	Ala	Met				
	305				310					315							

<210> 1752  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1752

Met	Ala	Leu	Thr	Asn	Thr	Trp	Asn	Ser	Ser	Ser	Val	Thr	Met	Phe	Ile		
1				5				10					15				
Phe	Leu	Gly	Phe	Ser	Asp	His	Pro	Glu	Leu	Arg	Ile	Phe	Leu	Phe	Leu		
			20					25				30					
Thr	Phe	Leu	Ser	Ile	Tyr	Leu	Val	Thr	Leu	Thr	Trp	Asn	Leu	Ala	Leu		
		35				40						45					
Ile	Phe	Leu	Ile	Arg	Gly	Asp	Ile	His	Leu	His	Thr	Pro	Met	Tyr	Phe		
	50				55					60							
Phe	Leu	Ser	Asn	Leu	Ser	Phe	Val	Asp	Ile	Cys	Tyr	Ser	Ser	Ser	Val		
	65			70				75						80			
Ala	Pro	Lys	Met	Leu	Ser	Asp	Phe	Phe	Arg	Glu	Gln	Lys	Thr	Ile	Ser		
			85					90					95				
Phe	Leu	Gly	Cys	Gly	Ala	Gln	Phe	Phe	Phe	Val	Gly	Leu	Gly	Leu			
		100					105					110					
Thr	Glu	Cys	Phe	Leu	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala		
	115					120					125						
Ile	Ser	Asn	Pro	Leu	Leu	Tyr	Thr	Thr	Ile	Met	Pro	Gln	Gly	Leu	Cys		
	130				135					140							
Met	Arg	Met	Val	Ala	Gly	Ala	Tyr	Leu	Gly	Gly	Phe	Leu	Ser	Ser	Phe		
	145			150					155						160		
Ile	Gln	Ala	Ser	Ser	Ile	Phe	Gln	Leu	His	Phe	Cys	Gly	Pro	Asn	Val		
			165					170					175				
Ile	Asn	His	Phe	Phe	Cys	Asp	Leu	Pro	Pro	Ile	Leu	Ala	Leu	Ser	Cys		
		180					185					190					
Ser	Asn	Thr	Phe	Leu	Ser	Gln	Val	Val	Asn	Phe	Leu	Ile	Val	Ile	Thr		
	195					200						205					
Val	Gly	Gly	Thr	Ser	Phe	Leu	Ile	Leu	Leu	Ile	Ser	Tyr	Ser	Tyr	Ile		
	210				215					220							
Val	Ser	Ala	Val	Leu	Lys	Ile	His	Ser	Val	Arg	Gly	Arg	Trp	Lys	Ala		
	225				230					235					240		

Phe	Asn	Thr	Cys	Ala	Ser	His	Leu	Met	Ala	Val	Thr	Met	Leu	Phe	Gly
				245					250					255	
Thr	Ala	Leu	Phe	Met	Tyr	Leu	Arg	Pro	Ser	Ser	Ser	Tyr	Ser	Phe	Ser
			260					265					270		
Arg	Asp	Lys	Val	Val	Ser	Val	Phe	Tyr	Ser	Leu	Val	Ile	Pro	Met	Leu
		275					280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Ile	Lys	Asp	Ala	Leu
	290					295					300				
Trp	Lys	Val	Met	Glu	Arg	Lys	Lys	Val	Phe	Pro	Asn	Leu			
305					310					315					

<210> 1753

<211> 313

<212> PRT

<213> Mus musculus

<400> 1753

Met	Glu	Met	Glu	Asn	Tyr	Thr	Arg	Ile	Lys	Glu	Leu	Ile	Phe	Leu	Gly
1				5					10					15	
Leu	Thr	Gln	Ser	Gln	Gln	Val	Ser	Ala	Val	Leu	Phe	Leu	Phe	Leu	Leu
		20						25					30		
Leu	Val	Tyr	Val	Thr	Thr	Leu	Leu	Gly	Asn	Leu	Leu	Ile	Met	Val	Thr
		35				40						45			
Val	Thr	Cys	Glu	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Arg
	50					55					60				
Asn	Leu	Ser	Val	Ala	Asp	Ile	Cys	Phe	Ser	Ser	Ile	Thr	Ala	Pro	Lys
65				70						75					80
Val	Leu	Val	Asp	Leu	Thr	Ser	Asn	Arg	Lys	Thr	Ile	Ser	Phe	Asn	Gly
			85						90					95	
Cys	Leu	Thr	Gln	Met	Phe	Phe	Phe	His	Leu	Ile	Gly	Gly	Val	Asp	Ala
			100					105					110		
Phe	Ser	Leu	Ser	Val	Met	Ala	Leu	Asp	Arg	Tyr	Val	Ala	Ile	Ser	Lys
		115				120						125			
Pro	Leu	His	Tyr	Val	Thr	Ile	Met	Ser	Arg	Gly	Arg	Cys	Ile	Gly	Leu
	130					135					140				
Ile	Val	Ala	Ser	Trp	Val	Gly	Gly	Phe	Ala	His	Ser	Ile	Val	Gln	Ile
145					150					155					160
Ser	Leu	Leu	Leu	Thr	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Leu	Asp	Thr
			165						170					175	
Phe	Tyr	Cys	Asp	Val	Pro	Gln	Val	Ile	Lys	Leu	Ala	Cys	Thr	Asp	Ile
			180					185					190		
Val	Val	Leu	Glu	Leu	Leu	Met	Ile	Ser	Asn	Asn	Gly	Met	Leu	Thr	Thr
		195				200						205			
Leu	Trp	Phe	Phe	Leu	Leu	Leu	Val	Ser	Tyr	Met	Val	Ile	Leu	Leu	Leu
	210					215					220				
Leu	Lys	Ser	Gln	Ser	Gly	Glu	Gly	Lys	Lys	Lys	Ala	Ile	Ser	Thr	Cys
225					230						235				240
Thr	Thr	His	Ile	Thr	Val	Val	Thr	Leu	His	Phe	Val	Pro	Cys	Ile	Tyr
			245							250				255	
Val	Tyr	Ala	Arg	Pro	Phe	Thr	Ala	Leu	Pro	Thr	Asp	Lys	Val	Ile	Ser
			260				265						270		
Val	Thr	Phe	Thr	Val	Ile	Ser	Pro	Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Thr
		275				280						285			
Leu	Arg	Asn	Gln	Glu	Met	Lys	Ser	Ala	Met	Arg	Arg	Leu	Arg	Lys	Lys
	290					295					300				
Phe	Arg	Phe	Ser	His	Trp	Ile	Glu	Lys							

305

. 310

&lt;210&gt; 1754

&lt;211&gt; 310

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 1754

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Met Glu Leu Arg Asn Asp Thr Arg Val Lys Glu Phe Ile Phe Leu Gly
 1           5           10           15
Leu Thr Gln Ser Gln His Leu Ser Leu Val Leu Cys Leu Val Leu Cys
          20           25           30
Phe Val Tyr Val Thr Thr Leu Leu Gly Asn Leu Leu Ile Met Ile Ile
          35           40           45
Val Thr Phe Glu Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu Arg
          50           55           60
Asn Leu Ala Val Leu Asp Ile Cys Phe Ser Ser Ile Thr Ala Pro Lys
65           70           75           80
Val Leu Val Asp Leu Leu Ala Lys Lys Lys Thr Ile Ser Tyr Ala Lys
          85           90           95
Cys Met Thr Gln Met Phe Phe Phe His Leu Leu Gly Gly Ala Asp Ile
          100          105          110
Phe Ser Leu Ser Val Met Ala Phe Asp Arg Tyr Met Ala Ile Ser Lys
          115          120          125
Pro Leu His Tyr Val Thr Ile Met Ser Ser Lys Arg Cys Thr Ala Leu
          130          135          140
Ile Ala Ala Ser Trp Val Gly Gly Phe Val His Ser Ile Val Gln Ile
145           150           155           160
Ser Leu Leu Leu Pro Leu Pro Phe Cys Gly Pro Asn Val Leu Asp Thr
          165          170          175
Phe Tyr Cys Asp Val Pro Gln Val Leu Lys Leu Ala Cys Thr Asp Thr
          180          185          190
Phe Val Leu Glu Leu Leu Met Ile Ser Asn Asn Gly Leu Val Thr Thr
          195          200          205
Leu Trp Phe Ile Phe Leu Leu Val Ser Tyr Met Val Ile Leu Met Met
          210          215          220
Leu Arg Ser Gln Ala Gly Glu Asp Arg Arg Lys Ala Ile Ser Thr Cys
225           230           235           240
Thr Ser His Ile Thr Val Val Thr Leu His Phe Val Pro Cys Ile Tyr
          245          250          255
Val Tyr Ala Arg Pro Phe Thr Ala Leu Pro Thr Asp Lys Ala Ile Ser
          260          265          270
Val Thr Phe Thr Val Ile Ser Pro Leu Leu Asn Pro Leu Ile Tyr Thr
          275          280          285
Leu Arg Asn Gln Glu Met Lys Ser Ala Ile Arg Arg Leu Lys Arg Lys
          290          295          300
Leu Thr Pro Leu Glu Lys
305           310

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&lt;210&gt; 1755

&lt;211&gt; 311

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 1755



Met	Glu	Leu	Gly	Asn	His	Thr	Lys	Val	Thr	Glu	Phe	Ile	Phe	Cys	Gly
1				5					10					15	
Leu	Thr	Gln	Ser	Gln	Glu	Leu	Ser	Leu	Leu	Leu	Phe	Phe	Phe	Leu	Ser
		20						25					30		
Ile	Val	Tyr	Ile	Thr	Thr	Val	Leu	Val	Asn	Val	Thr	Ile	Met	Val	Thr
	35					40						45			
Val	Thr	Trp	Glu	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Arg
	50					55					60				
Asn	Leu	Ser	Val	Leu	Asp	Ile	Cys	Phe	Ser	Ser	Ile	Thr	Val	Pro	Lys
65					70					75					80
Val	Leu	Val	Asp	Leu	Leu	Ser	Arg	Arg	Lys	Thr	Ile	Ser	Phe	Asn	Gly
			85						90					95	
Cys	Phe	Thr	Gln	Ile	Phe	Phe	Phe	His	Leu	Leu	Gly	Gly	Ala	Asp	Ile
			100					105					110		
Phe	Ser	Leu	Ser	Val	Met	Ala	Phe	Asp	Arg	Tyr	Met	Ala	Ile	Phe	Arg
		115					120					125			
Pro	Leu	His	Tyr	Val	Thr	Ile	Met	Ser	Arg	Gly	Arg	Cys	Thr	Ala	Leu
	130					135						140			
Ile	Ala	Ala	Ser	Trp	Val	Gly	Gly	Phe	Val	His	Ser	Ile	Val	Gln	Ile
145					150					155					160
Phe	Leu	Leu	Leu	Pro	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Val	Asp	Ser
			165						170					175	
Phe	Tyr	Cys	Asp	Val	Pro	Gln	Val	Leu	Lys	Leu	Ala	Cys	Thr	Asp	Thr
		180						185					190		
Phe	Val	Leu	Glu	Leu	Leu	Met	Ile	Ser	Asn	Asn	Gly	Leu	Ile	Thr	Thr
	195						200					205			
Leu	Trp	Phe	Val	Leu	Leu	Leu	Val	Ser	Tyr	Thr	Val	Ile	Leu	Thr	Met
	210					215					220				
Leu	Arg	Ser	His	Thr	Gly	Glu	Gly	Arg	Lys	Lys	Ala	Ile	Ser	Thr	Cys
225					230					235					240
Thr	Ser	His	Ile	Thr	Val	Val	Thr	Leu	His	Phe	Val	Pro	Cys	Ile	Tyr
			245						250					255	
Val	Tyr	Ala	Arg	Pro	Phe	Thr	Ala	Leu	Pro	Met	Asp	Arg	Ala	Val	Ser
		260					265						270		
Ile	Thr	Leu	Asn	Ile	Ile	Val	Pro	Val	Leu	Asn	Pro	Met	Ile	Tyr	Thr
	275					280						285			
Leu	Arg	Asn	Gln	Glu	Met	Lys	Ser	Ala	Met	Lys	Arg	Leu	Arg	Lys	Arg
	290					295					300				
Leu	Ile	Leu	Ser	Glu	Val	Glu									
305					310										

<210> 1756  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1756

Met	Ser	Gln	Ile	Asn	His	Thr	Asn	Val	Lys	Glu	Phe	Val	Phe	Leu	Ala
1				5					10					15	
Leu	Thr	Arg	Ile	Arg	Glu	Leu	Glu	Phe	Phe	Leu	Phe	Ser	Val	Phe	Phe
		20						25					30		
Leu	Val	Tyr	Val	Thr	Thr	Val	Leu	Gly	Asn	Thr	Leu	Ile	Val	Val	Thr
	35					40						45			
Ile	Thr	Ala	Glu	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Arg
	50					55					60				
Asn	Lys	Ser	Ile	Leu	Asp	Ile	Val	Phe	Ser	Ser	Ile	Thr	Val	Pro	Lys

65					70					75				80
Phe	Leu	Val	Asp	Leu	Leu	Ser	Glu	Arg	Lys	Ala	Ile	Ser	Tyr	Asn Gly
				85					90					95
Cys	Leu	Thr	Gln	Ile	Phe	Phe	Phe	His	Phe	Ala	Gly	Gly	Ala	Asp Ile
			100					105					110	
Phe	Phe	Leu	Ser	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Ala Lys
		115					120				125			
Pro	Leu	His	Tyr	Val	Thr	Ile	Met	Arg	Arg	Glu	Val	Trp	Leu	Ala Leu
	130					135					140			
Val	Val	Ala	Ser	Trp	Val	Gly	Gly	Gly	Leu	His	Ser	Ile	Val	Gln Ile
145					150					155				160
Ile	Leu	Met	Leu	Pro	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Thr	Leu	Asp Ala
			165					170					175	
Phe	Tyr	Cys	Asp	Ile	Pro	Gln	Val	Val	Lys	Leu	Ala	Cys	Thr	Asp Thr
		180					185					190		
Phe	Ala	Leu	Glu	Leu	Leu	Met	Ile	Ser	Asn	Asn	Gly	Leu	Val	Thr Leu
	195					200					205			
Leu	Trp	Phe	Phe	Leu	Leu	Leu	Gly	Ser	Tyr	Thr	Ile	Ile	Leu	Val Met
	210				215						220			
Leu	Arg	Ser	His	Ser	Gly	Glu	Gly	Arg	Asn	Lys	Ala	Leu	Ser	Thr Cys
225				230						235				240
Thr	Ser	His	Ile	Met	Val	Val	Thr	Leu	His	Phe	Val	Pro	Cys	Val Tyr
			245					250					255	
Ile	Tyr	Cys	Arg	Pro	Phe	Thr	Thr	Leu	Pro	Met	Asp	Thr	Ala	Ile Ser
		260					265					270		
Ile	Asn	Asn	Thr	Val	Ile	Thr	Pro	Met	Leu	Asn	Pro	Met	Ile	Tyr Thr
	275					280					285			
Leu	Arg	Asn	Gln	Glu	Met	Lys	Ser	Ala	Met	Lys	Arg	Leu	Gln	Arg Arg
	290				295					300				
Leu	Gly	Pro	Ser	Glu	Ser	Asn	Lys	Leu	Gly					
305					310									

<210> 1757  
 <211> 320  
 <212> PRT  
 <213> Mus musculus

<400> 1757

Met	Gly	Asp	Arg	Glu	Thr	Ser	Asn	His	Ser	Asp	Met	Thr	Asp	Phe	Ile
1				5					10					15	
Leu	Val	Gly	Phe	Arg	Val	Ser	Pro	Glu	Leu	His	Ile	Leu	Leu	Phe	Leu
			20					25					30		
Leu	Phe	Leu	Leu	Val	Tyr	Ala	Met	Ile	Leu	Leu	Gly	Asn	Leu	Gly	Met
	35					40					45				
Met	Ala	Ile	Ile	Met	Thr	Asp	Pro	Arg	Leu	Asn	Thr	Pro	Met	Tyr	Phe
	50			55						60					
Phe	Leu	Gly	Asn	Leu	Ser	Phe	Ile	Asp	Leu	Phe	Tyr	Ser	Ser	Val	Ile
65				70					75					80	
Ala	Pro	Lys	Ala	Met	Ser	Asn	Phe	Trp	Thr	Glu	Ser	Lys	Ser	Ile	Ser
			85					90					95		
Phe	Ala	Gly	Cys	Val	Ala	Gln	Ile	Phe	Leu	Phe	Ala	Leu	Phe	Ile	Val
	100						105					110			
Ala	Glu	Gly	Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Phe	Ile	Ala
	115					120					125				
Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Val	His	Met	Ser	Thr	Arg	Leu	Cys
	130				135						140				

Thr	Gln	Leu	Val	Ala	Gly	Ser	Tyr	Phe	Cys	Gly	Cys	Ile	Ser	Ser	Val
145					150					155					160
Leu	Gln	Thr	Ser	Met	Thr	Phe	Thr	Leu	Ser	Phe	Cys	Ala	Ser	Arg	Ala
				165					170						175
Ile	Asp	His	Phe	Tyr	Cys	Asp	Ser	Arg	Pro	Leu	Gln	Arg	Leu	Ser	Cys
			180					185					190		
Ser	Asp	Ile	Phe	Ile	His	Lys	Ile	Val	Ser	Phe	Ser	Leu	Ser	Gly	Ile
		195					200					205			
Ile	Ile	Leu	Pro	Thr	Ile	Thr	Val	Ile	Ile	Val	Ser	Tyr	Met	Tyr	Ile
	210					215					220				
Val	Ser	Thr	Val	Leu	Lys	Ile	Arg	Ser	Val	Glu	Gly	Arg	Lys	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Gly	Val	Val	Ser	Val	Leu	Tyr	Gly
			245					250						255	
Ala	Val	Phe	Phe	Met	Tyr	Leu	Thr	Pro	Asp	Arg	Phe	Pro	Glu	Leu	Ser
			260					265					270		
Lys	Leu	Ala	Ser	Leu	Cys	Tyr	Ser	Leu	Val	Thr	Pro	Met	Leu	Asn	Pro
	275						280					285			
Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Arg	Asp	Ala	Leu	Ser	Lys
	290					295					300				
Leu	Leu	Glu	Lys	Lys	Lys	Cys	Ser	Gly	Ser	Phe	Phe	Pro	Phe	Tyr	Lys
305					310					315					320

<210> 1758  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1758

Met	Gly	Asp	Arg	Glu	Thr	Ser	Asn	His	Ser	Asp	Met	Thr	Asp	Phe	Ile
1				5					10					15	
Leu	Val	Gly	Phe	Arg	Val	Ser	Pro	Glu	Leu	His	Ile	Leu	Leu	Phe	Leu
			20					25					30		
Leu	Phe	Leu	Leu	Val	Tyr	Ala	Met	Ile	Leu	Leu	Gly	Asn	Leu	Gly	Met
	35					40						45			
Met	Ala	Ile	Ile	Met	Thr	Asp	Pro	Arg	Leu	Asn	Thr	Pro	Met	Tyr	Phe
	50				55						60				
Phe	Leu	Gly	Asn	Leu	Ser	Phe	Ile	Asp	Leu	Phe	Tyr	Ser	Ser	Val	Ile
65				70					75						80
Ala	Pro	Lys	Ala	Met	Ser	Asn	Phe	Trp	Thr	Glu	Ser	Lys	Ser	Ile	Ser
			85					90						95	
Phe	Ala	Gly	Cys	Val	Ala	Gln	Leu	Phe	Leu	Phe	Ala	Leu	Phe	Ile	Val
		100					105						110		
Ala	Glu	Gly	Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Phe	Ile	Ala
	115					120						125			
Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Val	His	Met	Ser	Thr	Arg	Leu	Cys
	130					135					140				
Thr	Gln	Leu	Val	Ala	Gly	Ser	Tyr	Phe	Cys	Gly	Cys	Ile	Ser	Ser	Val
145				150						155					160
Leu	Gln	Thr	Ser	Met	Thr	Phe	Thr	Leu	Ser	Phe	Cys	Ala	Ser	Arg	Ala
			165					170						175	
Ile	Asp	His	Phe	Tyr	Cys	Asp	Thr	Arg	Pro	Val	Gln	Arg	Leu	Ser	Cys
			180				185						190		
Asn	Asn	Leu	Phe	Val	His	Lys	Ile	Val	Ser	Phe	Ser	Leu	Ser	Ser	Ile
	195					200						205			
Ile	Ile	Leu	Pro	Thr	Val	Ile	Val	Ile	Ile	Val	Ser	Tyr	Met	Tyr	Ile

210		215		220
Val Ser Thr Val Leu Lys	Ile Arg Ser Val Glu Gly Arg Lys Lys Ala			
225	230	235	240	
Phe Ser Thr Cys Ser His Leu Gly Val Ser Val Leu Tyr Gly				
	245	250	255	
Ala Val Phe Phe Met Tyr Leu Thr Pro Asp Arg Phe Pro Glu Leu Ser				
	260	265	270	
Lys Leu Ala Ser Leu Cys Phe Ser Leu Val Thr Pro Met Leu Asn Pro				
	275	280	285	
Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Arg Asp Ala Leu Ser Lys				
	290	295	300	
Leu Leu Glu Lys Lys Lys Phe Ile Leu				
305	310			

<210> 1759  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1759

Met Ala Asn His Ser Ser Val Thr Lys Phe Ile Leu Leu Gly Leu Thr				
1	5	10	15	
Asn Asp Ile Asn Leu Gln Ala Val Leu Phe Leu Phe Leu Ile Leu Thr				
	20	25	30	
Tyr Ile Leu Ser Val Met Gly Asn Ser Ala Ile Ile Leu Leu Thr Leu				
	35	40	45	
Leu Asp His Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Arg Asn Phe				
	50	55	60	
Ala Phe Leu Glu Ile Ser Phe Thr Ser Val Phe Val Pro Lys Met Leu				
	65	70	75	80
Ile Asn Ile Gly Thr Gly Asp Lys Thr Ile Ser Phe Ala Gly Cys Phe				
	85	90	95	
Thr Gln Tyr Phe Phe Ala Ile Leu Leu Gly Ala Thr Glu Phe Tyr Leu				
	100	105	110	
Leu Ala Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Arg Pro Leu				
	115	120	125	
His Tyr Thr Thr Ile Met Ser Arg Arg Leu Cys Phe Gln Leu Val Leu				
	130	135	140	
Ser Ser Trp Leu Ser Gly Phe Ile Val Val Ala Val Pro His Ala Met				
	145	150	155	160
Thr Leu Gln Leu Pro Phe Cys Ala Ser Asn Ile Ile Asn His Tyr Cys				
	165	170	175	
Cys Asp Tyr Thr Ile Leu Leu His Leu Ser Cys Ser Asp Thr His Phe				
	180	185	190	
Ile Glu Val Ile Gln Phe Leu Leu Ala Ala Val Thr Leu Ile Leu Thr				
	195	200	205	
Leu Leu Leu Val Ile Leu Ser Tyr Thr His Ile Ile Lys Thr Ile Leu				
	210	215	220	
Arg Ile Pro Ser Ala Gln Gln Arg Lys Lys Ala Phe Ser Thr Cys Ser				
	225	230	235	240
Ser His Met Ile Val Val Ser Leu Ser Tyr Gly Ser Cys Ile Phe Met				
	245	250	255	
Tyr Ile Asn Pro Ser Phe Lys Asp Ala Ala Asn Phe Asn Lys Arg Val				
	260	265	270	
Ala Val Leu Asn Thr Ser Val Ala Pro Leu Leu Asn Pro Phe Ile Tyr				
	275	280	285	

Thr	Leu	Arg	Asn	Lys	Gln	Val	Lys	Ile	Ala	Phe	Lys	Asp	Met	Leu	Ser
290						295					300				
Lys	Thr	Ile	Ser	Phe	Phe	Lys	Lys								
305					310										

<210> 1760  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1760

Met	Lys	Leu	Glu	Gln	Ser	Arg	Asn	Tyr	Thr	Glu	Leu	Thr	Asp	Phe	Ile
1				5				10						15	
Leu	Leu	Gly	Phe	Trp	Thr	Ser	Pro	Glu	Ala	Gln	Val	Pro	Leu	Phe	Leu
		20						25					30		
Leu	Phe	Leu	Phe	Ile	Tyr	Leu	Val	Ile	Leu	Leu	Gly	Asn	Leu	Ser	Met
		35					40					45			
Leu	Thr	Val	Ile	Lys	Ile	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Gln	Asn	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Tyr	Ser	Thr	Val	Ile
65					70					75					80
Ala	Pro	Lys	Thr	Leu	Ala	Thr	Ile	Phe	Ser	Lys	Glu	Lys	Lys	Ile	Ser
			85					90						95	
Tyr	Asn	Glu	Cys	Ala	Thr	Gln	Phe	Phe	Phe	Ala	Leu	Phe	Val	Gly	
			100					105					110		
Thr	Glu	Gly	Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Ser	Ala
		115					120					125			
Ile	Cys	Ser	Pro	Phe	Leu	Tyr	Thr	Val	His	Met	Ser	Gln	Pro	Ala	Cys
	130					135					140				
Ile	Arg	Leu	Val	Ala	Gly	Ser	Tyr	Ile	Cys	Gly	Cys	Ile	Asn	Ser	Met
145					150					155					160
Ile	Gln	Thr	Gly	Phe	Thr	Phe	Ser	Leu	Arg	Phe	Cys	Gly	Glu	Asn	Arg
			165					170						175	
Leu	Asp	His	Phe	Phe	Cys	Asp	Val	Pro	Ala	Leu	Ile	Lys	Ile	Ser	Cys
		180						185					190		
Val	Asp	Thr	Phe	Val	Asn	Glu	Ile	Val	Leu	Phe	Ile	Leu	Ser	Ala	Leu
		195					200					205			
Ile	Ile	Ile	Ser	Thr	Ile	Thr	Ile	Ile	Leu	Val	Ser	Tyr	Ala	Tyr	Ile
	210					215						220			
Leu	Ser	Thr	Val	Leu	Lys	Ile	Pro	Ser	Thr	His	Gly	Arg	Ser	Lys	Thr
225					230					235					240
Phe	Ser	Thr	Cys	Gly	Ser	His	Ile	Ala	Val	Val	Ser	Leu	Phe	Tyr	Gly
			245					250						255	
Thr	Val	Phe	Phe	Met	Tyr	Ala	Gln	Pro	Gly	Ser	Ile	Ser	Ser	Pro	Glu
		260					265						270		
Lys	Ser	Lys	Ile	Val	Ala	Val	Phe	Tyr	Thr	Leu	Ile	Ile	Pro	Met	Leu
		275					280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Thr	Glu	Val	Lys	Ser	Ala	Leu
	290					295					300				
Lys	Lys	Thr	Leu	Leu	Arg	Lys	Ile	Ser	Trp	Gln					
305					310					315					

<210> 1761  
 <211> 315  
 <212> PRT

<213> Mus musculus

<400> 1761

Met	Lys	Leu	Glu	Gln	Ser	Arg	Asn	Tyr	Thr	Glu	Leu	Thr	Asp	Phe	Ile
1				5					10					15	
Leu	Leu	Gly	Phe	Trp	Thr	Ser	Pro	Glu	Ala	Arg	Val	Pro	Leu	Phe	Leu
		20						25					30		
Leu	Phe	Leu	Phe	Ile	Tyr	Leu	Val	Ile	Val	Leu	Gly	Asn	Leu	Ser	Met
		35					40					45			
Leu	Thr	Val	Ile	Lys	Ile	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Gln	Asn	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Tyr	Ser	Thr	Val	Ile
65					70					75					80
Ala	Pro	Lys	Ala	Leu	Ala	Thr	Phe	Phe	Ser	Lys	Glu	Lys	Lys	Ile	Ser
			85						90					95	
Tyr	Asn	Glu	Cys	Ala	Thr	Gln	Phe	Phe	Phe	Phe	Ala	Leu	Phe	Val	Gly
		100						105						110	
Thr	Glu	Gly	Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Ser	Ala
	115					120						125			
Ile	Cys	Ser	Pro	Phe	Leu	Tyr	Thr	Val	His	Met	Ser	Gln	Pro	Ala	Cys
	130					135					140				
Ile	Arg	Leu	Val	Ala	Gly	Ser	Tyr	Ile	Cys	Gly	Cys	Ile	Asn	Ser	Met
145					150					155					160
Ile	Gln	Thr	Gly	Phe	Thr	Phe	Ser	Leu	Arg	Phe	Cys	Gly	Glu	Asn	Arg
			165						170					175	
Leu	Asp	His	Phe	Phe	Cys	Asp	Val	Pro	Ala	Leu	Ile	Lys	Ile	Ser	Cys
			180					185					190		
Val	Asp	Thr	Phe	Val	Asn	Glu	Ile	Val	Leu	Phe	Ile	Leu	Ser	Ala	Leu
	195						200					205			
Ile	Ile	Ile	Ser	Thr	Ile	Thr	Ile	Ile	Leu	Val	Ser	Tyr	Ala	Tyr	Ile
	210					215					220				
Leu	Ser	Thr	Val	Leu	Lys	Ile	Pro	Ser	Thr	His	Gly	Arg	Ser	Lys	Thr
225					230					235					240
Phe	Ser	Thr	Cys	Gly	Ser	His	Ile	Ala	Val	Val	Ser	Leu	Phe	Tyr	Gly
			245						250					255	
Thr	Val	Phe	Phe	Met	Tyr	Ala	Gln	Pro	Gly	Ser	Ile	Ser	Ser	Pro	Glu
		260						265					270		
Lys	Ser	Lys	Ile	Val	Ala	Val	Phe	Tyr	Thr	Leu	Ile	Ile	Pro	Met	Leu
	275						280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Thr	Glu	Val	Lys	Ser	Ala	Leu
	290					295					300				
Lys	Lys	Thr	Leu	Leu	Arg	Lys	Ile	Pro	Trp	His					
305					310					315					

<210> 1762

<211> 312

<212> PRT

<213> Mus musculus

<400> 1762

Met	Lys	Asn	His	Thr	Glu	Val	Thr	Val	Phe	Ile	Leu	Ala	Gly	Leu	Thr
1				5					10					15	
Asp	Asp	Pro	Gln	Trp	Lys	Val	Val	Leu	Phe	Ile	Phe	Leu	Leu	Leu	Thr
		20						25					30		
Tyr	Leu	Leu	Ser	Val	Thr	Gly	Asn	Leu	Thr	Ile	Ile	Thr	Leu	Thr	Leu
		35					40						45		

Val	Asp	Thr	His	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe	
50						55					60					
Ser	Phe	Leu	Glu	Phe	Ser	Tyr	Thr	Thr	Thr	Cys	Ile	Pro	Lys	Leu	Leu	
65					70					75					80	
Val	Thr	Met	Ala	Thr	Gly	Asp	Lys	Thr	Ile	Ser	Tyr	Gly	Asn	Cys	Val	
				85					90					95		
Thr	Gln	Val	Phe	Phe	Ala	Phe	Leu	Phe	Gly	Ala	Ser	Glu	Phe	Tyr	Leu	
			100					105					110			
Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	
		115					120					125				
His	Tyr	Met	Thr	Ile	Met	Asn	Asn	Lys	Val	Cys	Val	Gln	Leu	Val	Leu	
	130					135					140					
Ser	Cys	Trp	Leu	Ala	Gly	Phe	Phe	Val	Ile	Phe	Pro	Pro	Leu	Val	Leu	
145					150					155					160	
Gly	Leu	Asn	Leu	Glu	Phe	Cys	Ala	Ser	Asn	Ile	Val	Asp	His	Phe	Tyr	
				165					170					175		
Cys	Asp	Thr	Thr	Pro	Leu	Leu	Gln	Ile	Ser	Cys	Thr	Asp	Thr	Gln	Leu	
			180					185					190			
Leu	Glu	Thr	Met	Gly	Phe	Val	Ser	Ala	Leu	Val	Thr	Leu	Leu	Leu	Thr	
		195					200					205				
Leu	Val	Met	Val	Ile	Ile	Ser	Tyr	Thr	Tyr	Ile	Ala	Ile	Thr	Ile	Leu	
	210					215					220					
Lys	Ile	Pro	Ser	Thr	Glu	Gln	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser	
225					230					235					240	
Ser	His	Met	Ile	Val	Ile	Ser	Ile	Ser	Tyr	Gly	Ser	Cys	Ile	Phe	Met	
				245					250					255		
Tyr	Val	Lys	Pro	Ser	Val	Lys	Gln	Arg	Ile	Ser	Ile	Ser	Lys	Gly	Ile	
			260					265						270		
Ser	Val	Leu	Asn	Thr	Ser	Val	Ala	Pro	Leu	Leu	Asn	Pro	Phe	Ile	Tyr	
		275					280					285				
Thr	Leu	Arg	Asn	Gln	Gln	Val	Lys	Lys	Ala	Phe	Ile	Thr	Thr	Val	His	
	290					295					300					
Arg	Ile	Ala	Ser	Ser	Ser	Lys	Lys									
305					310											

<210> 1763  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1763

Met	Lys	Asn	His	Thr	Arg	Val	Thr	Ile	Phe	Ile	Ile	Ala	Gly	Leu	Thr	
1				5					10					15		
Asp	Asp	Pro	Gln	Trp	Lys	Val	Val	Leu	Phe	Ile	Phe	Leu	Leu	Leu	Thr	
			20					25					30			
Tyr	Leu	Leu	Ser	Ile	Thr	Gly	Asn	Leu	Thr	Ile	Ile	Thr	Leu	Thr	Leu	
		35				40						45				
Val	Asp	Thr	His	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe	
	50					55					60					
Ser	Phe	Leu	Glu	Ile	Ser	Tyr	Thr	Thr	Thr	Cys	Ile	Pro	Lys	Leu	Leu	
65					70					75					80	
Val	Thr	Met	Ala	Thr	Gly	Asp	Lys	Thr	Ile	Ser	Tyr	Asn	Asn	Cys	Ala	
				85					90					95		
Ala	Gln	Val	Phe	Phe	Ala	Phe	Leu	Leu	Gly	Ala	Ser	Glu	Phe	Tyr	Leu	
		100						105					110			
Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	





Cys	Ser	Asn	Thr	Asn	Leu	Leu	Asp	Leu	Met	Ala	Phe	Ile	Leu	Ala	Leu
		195					200					205			
Met	Thr	Leu	Ile	Val	Thr	Leu	Val	Ile	Val	Ile	Phe	Ser	Tyr	Ala	His
		210				215					220				
Ile	Ala	Lys	Thr	Ile	Met	Lys	Phe	Pro	Ser	Val	Gln	Gln	Lys	Lys	Lys
225					230					235					240
Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Met	Ile	Val	Val	Ser	Leu	Thr	Tyr
				245					250					255	
Gly	Ser	Cys	Ile	Phe	Ile	Tyr	Ile	Lys	Pro	Ser	Ala	Asn	Glu	Arg	Val
			260					265					270		
Thr	Leu	Ser	Lys	Gly	Ile	Ala	Val	Leu	Asn	Thr	Ser	Val	Ala	Pro	Leu
		275					280					285			
Leu	Asn	Pro	Phe	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Gln	Val	Lys	Gln	Ala
	290					295					300				
Cys	Gly	Val	Val	Leu	Arg	Lys	Ile	Phe	Ser	Ala	Ser				
305					310					315					

<210> 1765  
 <211> 324  
 <212> PRT  
 <213> Mus musculus

<400> 1765

Met	Ser	Leu	Phe	Pro	Gln	Arg	Asn	Leu	Asp	Ala	Met	Asn	Arg	Ser	Ala
1				5					10					15	
Ala	His	Val	Thr	Glu	Phe	Val	Leu	Leu	Gly	Phe	Pro	Gly	Ser	Trp	Lys
			20					25					30		
Ile	Gln	Ile	Phe	Leu	Phe	Val	Leu	Phe	Leu	Val	Phe	Tyr	Val	Leu	Thr
	35						40					45			
Leu	Leu	Gly	Asn	Gly	Ala	Ile	Ile	Cys	Ala	Val	Arg	Cys	Asp	Ser	Arg
	50					55					60				
Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Gly	Asn	Phe	Ser	Phe	Leu	Glu
65				70					75						80
Ile	Trp	Tyr	Val	Ser	Ser	Thr	Ile	Pro	Asn	Ile	Leu	Ala	Asn	Ile	Leu
			85					90					95		
Ser	Lys	Thr	Lys	Ala	Ile	Ser	Phe	Ser	Gly	Cys	Phe	Leu	Gln	Phe	Tyr
		100						105					110		
Phe	Phe	Phe	Ser	Leu	Gly	Thr	Thr	Glu	Cys	Leu	Phe	Leu	Ala	Val	Met
		115				120						125			
Ala	Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Arg	Pro	Leu	His	Tyr	Pro	Thr
	130					135					140				
Ile	Met	Thr	Arg	Arg	Leu	Cys	Cys	Ile	Leu	Val	Ser	Ser	Cys	Trp	Leu
145					150					155					160
Ile	Gly	Phe	Leu	Gly	Tyr	Pro	Ile	Pro	Ile	Phe	Ser	Ile	Ser	Gln	Leu
			165					170						175	
Pro	Phe	Cys	Gly	Ser	Asn	Ile	Ile	Asp	His	Phe	Leu	Cys	Asp	Met	Asp
		180						185					190		
Pro	Leu	Met	Ala	Leu	Ser	Cys	Ala	Pro	Ala	Pro	Ile	Thr	Glu	Phe	Ile
		195					200					205			
Phe	Tyr	Ala	Gln	Ser	Ser	Phe	Val	Leu	Phe	Phe	Thr	Ile	Ala	Tyr	Ile
	210					215					220				
Leu	Arg	Ser	Tyr	Ile	Leu	Leu	Leu	Arg	Ala	Val	Phe	Gln	Val	Pro	Ser
225					230					235					240
Ala	Ala	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Val
				245					250					255	
Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Val	Met	Val	Met	Tyr	Val	Ser	Pro



<210> 1767  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1767  
 Met Lys Ala Phe Ser Ser Pro Ser Asn Ser Ser Ile Ile Thr Gly Phe  
 1 5 10 15  
 Ile Leu Leu Gly Phe Pro Cys Pro Lys Glu Gly Gln Ile Leu Leu Phe  
 20 25 30  
 Val Leu Phe Phe Ile Ile Tyr Ile Leu Thr Leu Met Gly Asn Ala Ser  
 35 40 45  
 Ile Ile Cys Ala Val Cys Tyr Asp Lys Lys Leu His Ser Pro Met Tyr  
 50 55 60  
 Leu Leu Leu Ala Asn Phe Ser Phe Leu Glu Ile Trp Tyr Val Thr Ser  
 65 70 75 80  
 Thr Val Pro Asn Met Leu Ala Asn Phe Leu Ser Asp Thr Lys Val Ile  
 85 90 95  
 Ser Phe Ser Gly Cys Phe Leu Gln Phe Tyr Phe Phe Phe Ser Leu Gly  
 100 105 110  
 Ser Thr Glu Cys Phe Phe Leu Ala Val Met Ala Phe Asp Arg Tyr Leu  
 115 120 125  
 Ala Ile Cys Arg Pro Leu His Tyr Pro Ser Leu Met Thr Gly Arg Leu  
 130 135 140  
 Cys Asn Ile Leu Val Ile Ser Cys Trp Met Leu Gly Phe Leu Trp Phe  
 145 150 155 160  
 Pro Val Pro Ile Ile Ile Ile Ser Gln Met Ser Phe Cys Gly Ser Arg  
 165 170 175  
 Ile Ile Asp His Phe Leu Cys Asp Pro Gly Pro Leu Leu Ala Leu Thr  
 180 185 190  
 Cys Val Arg Asn Ser Leu Ile Glu Met Thr Ser Ser Thr Leu Ser Ser  
 195 200 205  
 Leu Leu Leu Phe Val Pro Phe Phe Phe Ile Met Gly Ser Tyr Ala Leu  
 210 215 220  
 Val Met Arg Ala Val Leu Arg Val Pro Ser Ala Ala Gly Arg Arg Lys  
 225 230 235 240  
 Ala Phe Ser Thr Cys Gly Ser His Leu Thr Val Val Ser Leu Phe Tyr  
 245 250 255  
 Gly Ser Val Met Val Met Tyr Val Ser Pro Thr Ser Glu His Ala Ala  
 260 265 270  
 Gly Val Gln Lys Leu Val Thr Leu Phe Tyr Ser Val Val Thr Pro Leu  
 275 280 285  
 Leu Asn Pro Val Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys His Ala  
 290 295 300  
 Met Lys Lys Leu Leu Lys Met  
 305 310

<210> 1768  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1768  
 Met Lys Thr Phe Ser Ser Pro Ser Asn Ser Ser Thr Thr Thr Gly Phe

1				5					10				15				
Ile	Leu	Leu	Gly	Phe	Pro	Cys	Pro	Arg	Glu	Gly	Gln	Ile	Leu	Leu	Phe		
			20					25					30				
Val	Leu	Phe	Ser	Ile	Val	Tyr	Leu	Leu	Thr	Leu	Met	Gly	Asn	Thr	Cys		
		35					40					45					
Ile	Ile	Phe	Ala	Val	Cys	Trp	Asp	Gln	Arg	Leu	His	Thr	Pro	Met	Tyr		
	50					55					60						
Leu	Leu	Leu	Ala	Asn	Phe	Ser	Phe	Leu	Glu	Ile	Trp	Tyr	Val	Thr	Ser		
65					70					75					80		
Thr	Val	Pro	Asn	Met	Leu	Ala	Asn	Phe	Leu	Ser	Asp	Thr	Lys	Val	Ile		
				85					90					95			
Ser	Phe	Ser	Gly	Cys	Phe	Leu	Gln	Phe	Tyr	Phe	Phe	Phe	Ser	Leu	Gly		
			100					105					110				
Ser	Thr	Glu	Cys	Leu	Phe	Leu	Ala	Val	Met	Ala	Phe	Asp	Arg	Tyr	Leu		
		115					120					125					
Ala	Ile	Cys	Arg	Pro	Leu	His	Tyr	Pro	Ala	Leu	Met	Thr	Gly	Ser	Leu		
	130					135					140						
Cys	Asn	Ile	Leu	Val	Ile	Ser	Cys	Trp	Val	Leu	Gly	Phe	Leu	Trp	Phe		
145					150					155					160		
Pro	Val	Pro	Ile	Ile	Ile	Ser	Gln	Met	Ser	Phe	Cys	Gly	Ser	Arg			
			165					170					175				
Ile	Ile	Asp	His	Phe	Leu	Cys	Asp	Pro	Gly	Pro	Leu	Leu	Ala	Leu	Thr		
		180						185					190				
Cys	Ser	Arg	Ala	Pro	Leu	Met	Glu	Val	Phe	Trp	Thr	Ile	Ile	Thr	Ser		
	195						200					205					
Leu	Ile	Leu	Phe	Val	Pro	Phe	Leu	Phe	Ile	Met	Gly	Ser	Tyr	Thr	Leu		
	210					215				220							
Val	Leu	Arg	Ala	Val	Phe	Arg	Val	Pro	Ser	Arg	Asp	Gly	Gln	Lys	Lys		
225					230					235					240		
Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Thr	Val	Val	Leu	Leu	Phe	Tyr		
			245						250					255			
Gly	Ser	Val	Met	Ile	Met	Tyr	Leu	Ser	Pro	Thr	Ser	Glu	His	Glu	Ala		
		260					265					270					
Gly	Met	Gln	Lys	Leu	Val	Thr	Leu	Phe	Tyr	Ser	Val	Val	Thr	Pro	Leu		
	275						280					285					
Val	Asn	Pro	Val	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	His	Ala		
	290					295					300						
Leu	Gln	Lys	Ile	Leu	Arg	Thr											
305					310												

<210> 1769  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1769

Met	Thr	Ser	Ala	Arg	Asn	Ala	Ser	His	Thr	Val	Ser	His	Phe	Ile	Leu		
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Leu	Gly	Phe	Pro	Cys	Arg	Arg	Glu	Ile	Gln	Ile	Phe	Leu	Phe	Ser	Ile		
		20					25					30					
Phe	Phe	Met	Ile	Tyr	Ile	Leu	Thr	Leu	Leu	Gly	Asn	Met	Ala	Ile	Val		
	35					40					45						
Tyr	Ala	Val	Tyr	Trp	Asp	His	Arg	Leu	His	Thr	Pro	Met	Tyr	Ile	Leu		
	50				55					60							
Leu	Ala	Asn	Phe	Ser	Phe	Leu	Glu	Ile	Cys	Tyr	Val	Asn	Ser	Asp	Val		
65					70					75					80		

Pro	Asn	Met	Leu	Val	Asn	Phe	Leu	Ser	Thr	Thr	Lys	Thr	Ile	Ser	Phe	
			85						90					95		
Thr	Arg	Cys	Leu	Leu	Gln	Leu	Tyr	Phe	Phe	Phe	Ser	Leu	Gly	Thr	Thr	
			100					105					110			
Glu	Cys	Leu	Phe	Leu	Ser	Ile	Met	Ala	Tyr	Asp	Arg	Phe	Leu	Ala	Ile	
		115					120					125				
Cys	Arg	Pro	Leu	His	Tyr	Pro	Thr	Val	Met	Thr	Thr	Met	Phe	Cys	Gly	
		130					135					140				
Asn	Leu	Val	Ile	Phe	Cys	Trp	Val	Tyr	Gly	Phe	Leu	Trp	Phe	Leu	Ile	
145					150					155					160	
Pro	Val	Ile	Leu	Ile	Thr	Gln	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	
			165						170					175		
Asp	Asp	Phe	Leu	Cys	Asp	Leu	Gly	Pro	Leu	Leu	Ala	Leu	Ala	Ser	Val	
		180						185					190			
Cys	Val	Pro	Ile	Pro	Gly	Thr	Val	Leu	Ile	Cys	Gly	Thr	Met	Ser	Ser	
		195					200					205				
Leu	Leu	Ile	Phe	Gly	Thr	Phe	Phe	Tyr	Ile	Ile	Gly	Ser	Tyr	Thr	Leu	
		210				215					220					
Val	Leu	Arg	Ala	Val	Ile	Arg	Met	Pro	Ser	Ser	Ala	Gly	Ser	Lys	Lys	
225					230					235					240	
Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Ala	Val	Val	Phe	Leu	Phe	Tyr	
			245						250					255		
Gly	Ser	Val	Met	Ile	Thr	Tyr	Val	Ser	Pro	Gly	Ser	Gly	Gln	Ala	Lys	
		260						265					270			
Gly	Met	Gln	Lys	Phe	Thr	Thr	Leu	Phe	Tyr	Ser	Val	Met	Thr	Pro	Phe	
		275					280					285				
Phe	Asn	Pro	Met	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Met	Lys	Asp	Ala	
	290					295					300					
Leu	Lys	Lys	Val	Val	Gly	Gly	Ser									
305					310											

<210> 1770  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1770

Met	Glu	Thr	Glu	Asn	Arg	Thr	Val	Val	Thr	Glu	Phe	Ile	Leu	Ile	Gly	
1				5					10					15		
Leu	Thr	Gln	Ser	His	Asp	Ile	Gln	Arg	Leu	Val	Phe	Val	Leu	Ser	Leu	
		20						25					30			
Ile	Phe	Tyr	Ile	Ile	Ile	Leu	Pro	Gly	Asn	Ile	Leu	Ile	Ile	Leu	Thr	
		35					40					45				
Ile	Arg	Ser	Asp	Pro	Gly	Leu	Thr	Ala	Pro	Leu	Tyr	Phe	Phe	Leu	Gly	
	50					55					60					
Asn	Leu	Ala	Phe	Leu	Asp	Ala	Ser	Tyr	Ser	Phe	Ile	Val	Ala	Pro	Arg	
65					70					75					80	
Met	Leu	Val	Asp	Phe	Phe	Ser	Glu	Lys	Lys	Ile	Ile	Ser	Tyr	Lys	Ala	
			85						90					95		
Cys	Ile	Thr	Gln	Leu	Phe	Phe	Leu	His	Phe	Leu	Gly	Gly	Gly	Glu	Gly	
		100						105				110				
Leu	Leu	Leu	Val	Val	Met	Ala	Phe	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Arg	
		115				120						125				
Pro	Leu	His	Tyr	Ser	Thr	Val	Met	Ser	Pro	Arg	Ala	Cys	Tyr	Val	Met	
	130					135					140					
Leu	Leu	Ala	Leu	Trp	Leu	Gly	Gly	Phe	Ile	His	Ser	Ile	Ile	Gln	Val	

145		150		155		160									
Val	Leu	Ile	Leu	Arg	Leu	Pro	Phe	Cys	Gly	Pro	Asn	His	Leu	Asp	Asn
				165					170					175	
Phe	Phe	Cys	Asp	Val	Pro	Gln	Val	Ile	Lys	Leu	Ala	Cys	Thr	Asp	Thr
			180						185				190		
Phe	Ala	Val	Glu	Leu	Leu	Met	Ile	Phe	Asn	Ser	Gly	Leu	Leu	Thr	Leu
		195					200					205			
Leu	Cys	Phe	Leu	Gly	Leu	Leu	Thr	Ser	Tyr	Ala	Val	Ile	Leu	Cys	His
	210					215					220				
Val	His	Arg	Ser	Ala	Ser	Glu	Gly	Lys	Asn	Lys	Ala	Ile	Ser	Thr	Cys
225					230					235					240
Thr	Thr	His	Val	Ile	Ile	Ile	Phe	Ile	Met	Phe	Gly	Pro	Ala	Ile	Phe
			245						250					255	
Ile	Tyr	Thr	Arg	Pro	Phe	Thr	Ala	Leu	Ser	Ala	Asp	Lys	Val	Val	Ser
			260				265						270		
Phe	Phe	His	Thr	Val	Ile	Phe	Pro	Leu	Met	Asn	Pro	Val	Ile	Tyr	Thr
		275				280					285				
Leu	Arg	Asn	Gln	Glu	Val	Lys	Thr	Ser	Met	Lys	Lys	Leu	Ile	Ile	Arg
	290					295					300				
His	Ile	Ile	Cys												
305															

<210> 1771  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1771

Met	Glu	Pro	Ala	Asn	Asp	Thr	Thr	Val	Thr	Glu	Phe	Ile	Leu	Thr	Gly
1				5					10					15	
Leu	Ser	Gln	Thr	Arg	Glu	Val	Gln	Leu	Val	Leu	Phe	Val	Ile	Phe	Leu
			20				25						30		
Ser	Phe	Tyr	Leu	Phe	Ile	Leu	Pro	Val	Asn	Ile	Leu	Ile	Ile	Cys	Thr
		35				40					45				
Ile	Arg	Leu	Asp	Ser	His	Leu	Ser	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ala
	50				55					60					
Asn	Leu	Ala	Phe	Leu	Asp	Ile	Trp	Tyr	Ser	Ser	Ile	Thr	Ala	Pro	Lys
65				70					75					80	
Met	Leu	Val	Asp	Phe	Phe	Val	Glu	Arg	Lys	Ile	Ile	Ser	Phe	Gly	Gly
			85					90					95		
Cys	Ile	Ala	Gln	Leu	Phe	Phe	Leu	His	Phe	Val	Gly	Ala	Ser	Glu	Met
		100					105						110		
Phe	Leu	Leu	Thr	Val	Met	Ala	Phe	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Arg
		115				120						125			
Pro	Leu	His	Tyr	Ala	Thr	Ile	Met	Asn	Arg	Arg	Leu	Cys	Cys	Ile	Leu
	130				135						140				
Val	Ala	Leu	Ser	Trp	Thr	Gly	Gly	Phe	Val	His	Ser	Ile	Ile	Gln	Val
145				150						155				160	
Ala	Leu	Ile	Val	Arg	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Glu	Leu	Asp	Asn
			165						170					175	
Tyr	Phe	Cys	Asp	Ile	Thr	Gln	Val	Val	Arg	Ile	Ala	Cys	Ala	Asn	Thr
		180					185					190			
Phe	Leu	Glu	Glu	Met	Val	Met	Ile	Phe	Ser	Ser	Gly	Leu	Ile	Ser	Val
	195					200					205				
Val	Cys	Phe	Ile	Ala	Leu	Leu	Met	Ser	Tyr	Ala	Phe	Leu	Leu	Thr	Met
	210				215						220				

Leu	Lys	Lys	His	Ser	Ser	Ser	Gly	Glu	Ser	Thr	Ser	Arg	Ala	Ile	Ser
225					230					235					240
Thr	Cys	Tyr	Ser	His	Ile	Thr	Ile	Val	Val	Leu	Met	Phe	Gly	Pro	Ser
				245					250					255	
Ile	Tyr	Ile	Tyr	Ala	Arg	Pro	Phe	Asp	Ser	Phe	Ser	Leu	Asp	Lys	Val
			260					265					270		
Val	Ser	Val	Phe	His	Thr	Val	Ile	Phe	Pro	Leu	Leu	Asn	Pro	Ile	Ile
		275					280					285			
Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Lys	Ala	Ala	Met	Arg	Lys	Leu	Val
	290					295					300				
Asn	Arg	Tyr	Ile	Phe	Cys	Lys	Glu	Lys							
305					310										

<210> 1772  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1772

Met	Glu	Thr	Glu	Asn	Arg	Thr	Val	Val	Thr	Glu	Phe	Ile	Phe	Thr	Gly
1				5					10					15	
Leu	Thr	Glu	Ser	Leu	Asp	Ile	Gln	Arg	Leu	Val	Phe	Val	Leu	Ser	Leu
			20					25					30		
Ile	Phe	Tyr	Ile	Ile	Ile	Leu	Pro	Gly	Asn	Val	Phe	Ile	Ile	Leu	Thr
		35					40					45			
Ile	Ile	Ser	Asp	Pro	Gly	Leu	Thr	Ala	Pro	Leu	Tyr	Leu	Phe	Leu	Gly
	50					55				60					
Asn	Leu	Ala	Phe	Leu	Asp	Ala	Ser	Tyr	Ser	Phe	Ile	Val	Ala	Pro	Arg
65				70					75					80	
Met	Leu	Ile	Asp	Ile	Phe	Ser	Glu	Lys	Lys	Ile	Ile	Ser	Tyr	Lys	Ala
			85					90						95	
Cys	Ile	Thr	Gln	Leu	Phe	Phe	Leu	His	Phe	Leu	Gly	Gly	Gly	Glu	Phe
			100				105						110		
Leu	Leu	Leu	Val	Val	Met	Ala	Phe	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Arg
		115				120						125			
Pro	Leu	Tyr	Tyr	Ser	Thr	Val	Met	Asn	Pro	Arg	Val	Cys	Tyr	Val	Met
	130					135					140				
Leu	Leu	Ala	Pro	Trp	Leu	Gly	Gly	Phe	Ile	His	Ser	Ile	Ile	Gln	Val
145				150					155					160	
Val	Leu	Ile	Leu	Arg	Leu	Pro	Phe	Cys	Gly	Pro	Asn	His	Leu	Asp	Asn
			165					170						175	
Phe	Phe	Cys	Asp	Val	Pro	Gln	Val	Ile	Lys	Leu	Ala	Cys	Thr	Asp	Thr
		180					185						190		
Phe	Ala	Val	Glu	Leu	Leu	Met	Ile	Phe	Asn	Ser	Gly	Leu	Leu	Thr	Leu
	195					200						205			
Val	Cys	Phe	Leu	Gly	Leu	Leu	Thr	Ser	Tyr	Ala	Val	Ile	Leu	Cys	His
	210					215					220				
Val	His	Arg	Ser	Ala	Ser	Glu	Gly	Lys	Asn	Lys	Ala	Ile	Ser	Thr	Cys
225				230					235					240	
Thr	Thr	His	Val	Ile	Ile	Ile	Phe	Leu	Met	Phe	Gly	Pro	Ala	Ile	Phe
			245					250						255	
Ile	Tyr	Thr	Arg	Pro	Phe	Thr	Ala	Leu	Ser	Ala	Asp	Lys	Val	Val	Ser
		260					265						270		
Phe	Phe	His	Thr	Val	Ile	Phe	Pro	Leu	Leu	Asn	Pro	Val	Ile	Tyr	Thr
	275					280						285			
Leu	Arg	Asn	Gln	Glu	Val	Lys	Thr	Ser	Met	Lys	Lys	Leu	Phe	Ile	Arg

290  
Gln Val Ile Cys  
305

295

300

<210> 1773  
<211> 312  
<212> PRT  
<213> Mus musculus

<400> 1773  
Met Asn Asn His Ser Ser Ser Ser Ser Ser Thr Ser Asp Phe Ile Leu  
1 5 10 15  
Leu Gly Leu Ser Thr Asn Pro Trp Met Gln Lys Pro Leu Phe Gly Ile  
20 25 30  
Phe Ile Ile Met Tyr Leu Val Thr Val Met Gly Asn Val Leu Ile Ile  
35 40 45  
Leu Val Ile Arg Ser Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe  
50 55 60  
Leu Ser Asn Leu Ser Phe Met Asp Ile Cys Phe Thr Thr Val Ile Val  
65 70 75 80  
Pro Lys Met Leu Val Asn Phe Leu Ser Glu Thr Lys Thr Ile Ser Tyr  
85 90 95  
Val Gly Cys Leu Val Gln Met Tyr Phe Met Ala Leu Gly Asn Thr  
100 105 110  
Asp Ser Tyr Leu Leu Ala Ser Met Ala Ile Asp Arg Leu Val Ala Ile  
115 120 125  
Cys Asn Pro Leu His Tyr Asp Val Val Met Arg Pro Gln Arg Cys Leu  
130 135 140  
Leu Met Leu Leu Gly Ser Cys Thr Ile Ser His Leu His Ala Leu Phe  
145 150 155 160  
Arg Val Leu Leu Met Ser Arg Leu Ser Phe Cys Ala Ser His Val Ile  
165 170 175  
Lys His Phe Phe Cys Asp Thr Gln Pro Val Leu Lys Leu Ser Cys Ser  
180 185 190  
Asp Thr Ser Ser Ser Gln Ile Val Val Met Thr Glu Thr Leu Ala Val  
195 200 205  
Ile Val Thr Pro Phe Leu Cys Ile Leu Phe Ser Tyr Met Arg Ile Ile  
210 215 220  
Val Thr Val Leu Arg Ile Pro Ser Ala Ala Gly Lys Trp Lys Ala Phe  
225 230 235 240  
Ser Thr Cys Gly Ser His Leu Thr Val Val Leu Phe Tyr Gly Ser  
245 250 255  
Ile Ile Tyr Val Tyr Phe Arg Pro Leu Ser Met Tyr Ser Val Val Lys  
260 265 270  
Asp Arg Val Ala Thr Val Met Tyr Thr Val Val Thr Pro Met Met Asn  
275 280 285  
Pro Phe Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Arg Gly Leu Arg  
290 295 300  
Lys Leu Met Gly Lys Val His Leu  
305 310

<210> 1774  
<211> 318  
<212> PRT  
<213> Mus musculus



<400> 1774

Met	Asp	Gly	Ser	Thr	Leu	Gln	Ser	Pro	Gln	Gln	Asn	His	Ser	Thr	Phe
1				5					10					15	
Val	Ala	Phe	Ile	Leu	Leu	Gly	Phe	Ser	Asp	Val	Pro	Asn	Leu	Gln	Glu
			20					25					30		
Phe	Leu	Phe	Gly	Leu	Phe	Leu	Met	Val	Tyr	Leu	Ile	Ile	Leu	Met	Gly
		35					40					45			
Asn	Ser	Leu	Ile	Ile	Ile	Ile	Ile	Arg	Ala	Asp	Pro	Ser	Leu	Gln	Thr
	50					55					60				
Pro	Met	Tyr	Phe	Phe	Leu	Gly	Asn	Phe	Ser	Phe	Leu	Glu	Met	Cys	Tyr
65					70					75					80
Val	Ser	Val	Thr	Leu	Pro	Arg	Leu	Leu	Thr	Asp	Leu	Tyr	Arg	Gln	Asp
				85					90					95	
Arg	Ile	Ile	Ser	Phe	Met	Ala	Cys	Ala	Thr	Gln	Met	Tyr	Phe	Phe	Leu
			100					105					110		
Ile	Phe	Gly	Ala	Thr	Glu	Cys	Phe	Ile	Leu	Thr	Ala	Met	Ala	Tyr	Asp
		115					120					125			
Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Pro	Leu	Ile	Met	Asn
	130					135					140				
Asn	Ser	Leu	Cys	Ile	Gln	Leu	Ala	Ala	Gly	Cys	Trp	Ile	Ser	Gly	Val
145					150					155					160
Pro	Val	His	Ile	Gly	Phe	Thr	Tyr	Trp	Ile	Phe	Ser	Leu	Pro	Phe	Cys
			165						170					175	
Gly	Ser	Asn	Gln	Leu	Asn	His	Phe	Phe	Cys	Asp	Ile	Pro	Pro	Val	Leu
			180					185					190		
Thr	Leu	Ala	Cys	Gly	Asp	Thr	Phe	Met	Ile	Glu	Met	Leu	Ile	Tyr	Val
		195					200						205		
Ile	Ala	Leu	Leu	Val	Val	Thr	Ile	Pro	Phe	Met	Leu	Ile	Leu	Ala	Ser
	210					215					220				
Tyr	Val	Lys	Ile	Ile	Ser	Ser	Ile	Leu	Lys	Leu	Pro	Ser	Ala	Thr	Gly
225					230					235					240
Arg	Ala	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Ile	Val	Val	Ala
			245						250					255	
Leu	Phe	Phe	Gly	Ser	Gly	Ile	Ile	Thr	Tyr	Leu	Arg	Pro	Lys	Ser	Ser
		260						265					270		
His	Ser	Ala	Gly	Val	Asp	Lys	Phe	Leu	Ser	Leu	Phe	Tyr	Thr	Val	Val
	275						280					285			
Thr	Pro	Met	Phe	Asn	Pro	Met	Ile	Tyr	Cys	Leu	Arg	Asn	Lys	Asp	Val
	290					295					300				
Met	Ile	Ala	Leu	Lys	Lys	Ile	Phe	Leu	Arg	Cys	Phe	Met	Leu		
305					310					315					

<210> 1775

<211> 310

<212> PRT

<213> Mus musculus

<400> 1775

Met	Asp	Glu	Gly	Asn	Cys	Ser	Ser	Asn	Thr	Glu	Phe	Val	Leu	Leu	Gly
1				5					10					15	
Ile	Thr	Asn	Asn	Pro	Ser	Met	Lys	Val	Gly	Leu	Phe	Ile	Val	Phe	Leu
			20					25					30		
Ile	Ile	Tyr	Leu	Ile	Ile	Leu	Val	Ala	Asn	Ile	Gly	Met	Ile	Val	Leu
		35					40					45			
Ile	Lys	Leu	Asp	Pro	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser

50		55		60											
His	Leu	Ser	Phe	Ser	Asp	Leu	Cys	Tyr	Ser	Thr	Ala	Val	Gly	Pro	Lys
65					70					75					80
Met	Leu	Val	Asp	Leu	Met	Val	Lys	Gln	Lys	Ile	Ile	Pro	Phe	Val	Gly
				85					90					95	
Cys	Ala	Leu	Gln	Phe	Phe	Phe	Thr	Cys	Ile	Phe	Val	Asp	Ala	Glu	Cys
			100					105					110		
Met	Leu	Leu	Ala	Val	Met	Ala	Phe	Asp	Arg	Tyr	Lys	Ala	Ile	Ser	Asn
		115					120					125			
Pro	Leu	Met	Tyr	Val	Val	Gly	Met	Ser	Ser	Lys	Phe	Cys	Tyr	Gln	Leu
	130					135					140				
Leu	Ala	Gly	Val	Tyr	Leu	Val	Gly	Met	Ile	Asp	Thr	Val	Ile	His	Thr
145					150					155					160
Ile	Met	Thr	Phe	Gly	Leu	Cys	Phe	Tyr	Gly	Ser	Asn	Glu	Ile	Asn	His
				165					170					175	
Phe	Phe	Cys	Asp	Ile	Pro	Pro	Ile	Leu	Leu	Leu	Ser	Cys	Ser	Asp	Thr
			180					185					190		
Gln	Thr	Asn	Glu	Leu	Ile	Thr	Phe	Val	Ile	Phe	Gly	Phe	Ile	Glu	Leu
		195					200					205			
Ser	Thr	Ile	Ser	Gly	Val	Leu	Val	Ser	Tyr	Cys	Tyr	Ile	Ile	Ser	Ser
	210					215					220				
Val	Leu	Lys	Ile	Arg	Ser	Thr	Asp	Gly	Arg	Phe	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Thr	Ala	Val	Ala	Ile	Phe	Gln	Gly	Thr	Leu	Leu
				245					250					255	
Phe	Met	Tyr	Phe	Arg	Pro	Ala	Ser	Ala	Tyr	Ser	Leu	Asp	Gln	Asp	Lys
			260					265					270		
Ile	Thr	Ser	Leu	Phe	Tyr	Thr	Leu	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
	275						280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Gln	Glu	Ala	Leu	Gln	Lys	Leu
	290					295					300				
Lys	Lys	Lys	Ile	Phe	Phe										
305					310										

<210> 1776  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1776

Met	Asp	Lys	Arg	Asn	Cys	Ser	Ser	Val	Pro	Glu	Phe	Leu	Leu	Leu	Gly
1				5				10						15	
Ile	Thr	Asn	Lys	Pro	Glu	Met	Lys	Val	Ala	Leu	Phe	Ile	Val	Phe	Leu
		20						25					30		
Ile	Val	Tyr	Leu	Thr	Ile	Leu	Leu	Thr	Asn	Val	Gly	Met	Ile	Thr	Leu
	35					40					45				
Ile	Arg	Met	Asp	Pro	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
His	Leu	Ser	Phe	Ser	Asp	Leu	Cys	Tyr	Ser	Thr	Ala	Val	Gly	Pro	Lys
65					70					75					80
Met	Leu	Leu	Asp	Leu	Leu	Glu	Asp	Asn	Asn	Pro	Ile	Ser	Phe	Val	Gly
			85					90						95	
Cys	Phe	Leu	Gln	Leu	Leu	Ile	Val	Ser	Ile	Phe	Ile	Asp	Val	Glu	Cys
		100					105					110			
Met	Leu	Leu	Ala	Val	Met	Ala	Phe	Asp	Arg	Tyr	Lys	Ala	Ile	Ser	Asn
	115						120					125			

Pro	Leu	Met	Tyr	Ala	Val	Asp	Met	Ser	Ser	Arg	Val	Cys	Tyr	Gln	Phe
130						135					140				
Leu	Thr	Ala	Ile	Tyr	Val	Phe	Gly	Thr	Ile	Asp	Gly	Phe	Ile	His	Thr
145					150					155					160
Ser	Leu	Ala	Phe	Ser	Leu	Cys	Phe	Cys	His	Ser	Thr	Gln	Ile	Asn	His
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Pro	Pro	Val	Leu	Leu	Ser	Cys	Ser	Asp	Thr	
			180					185				190			
His	Ile	Asn	Glu	Leu	Val	Leu	Phe	Met	Leu	Phe	Gly	Phe	Ile	Glu	Leu
		195					200					205			
Ser	Thr	Ile	Ser	Gly	Val	Leu	Val	Ser	Tyr	Cys	Tyr	Ile	Ile	Ser	Ser
	210					215					220				
Val	Leu	Lys	Ile	Ser	Ser	Thr	Gly	Gly	Trp	Phe	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Thr	Ala	Val	Gly	Ile	Phe	Gln	Gly	Thr	Met	Leu
				245					250					255	
Phe	Met	Tyr	Phe	Arg	Pro	Ser	Ser	Ala	Tyr	Ser	Leu	Asp	Gln	Asp	Lys
			260					265					270		
Met	Thr	Ser	Ile	Phe	Tyr	Leu	Leu	Val	Ile	Pro	Met	Ile	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Leu	Val	Arg	Leu
	290				295						300				
Arg	Ser	Lys	Trp	Trp	Phe										
305					310										

<210> 1777  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1777

Met	Asp	Ile	Gly	Asn	Cys	Ser	Leu	Asn	Glu	Phe	Ile	Phe	Val	Gly	Val
1				5					10					15	
Thr	Asn	Asn	Pro	Glu	Met	Lys	Gly	Thr	Leu	Phe	Thr	Ile	Phe	Leu	Leu
			20					25					30		
Ile	Tyr	Leu	Ile	Asn	Leu	Leu	Gly	Asn	Ile	Gly	Met	Ile	Ile	Leu	Ile
	35						40					45			
Arg	Met	Asp	Pro	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His
	50					55					60				
Leu	Ser	Phe	Cys	Asp	Leu	Cys	Tyr	Ser	Thr	Ala	Ile	Gly	Pro	Lys	Met
65					70					75					80
Leu	Leu	Asp	Met	Phe	Gly	Lys	Asn	Lys	Ser	Ile	Pro	Phe	Trp	Gly	Cys
			85						90					95	
Ala	Leu	Gln	Leu	Phe	Ile	Phe	Cys	Val	Phe	Ala	Asp	Ser	Glu	Cys	Val
			100					105					110		
Leu	Leu	Ala	Val	Met	Ala	Phe	Asp	Arg	Tyr	Gln	Ala	Ile	Ser	Asn	Pro
		115					120					125			
Leu	Leu	Tyr	Thr	Ala	Asn	Met	Ser	Ser	Arg	Lys	Cys	Phe	Met	Phe	Met
		130				135					140				
Ala	Gly	Val	Tyr	Leu	Val	Gly	Thr	Ala	Asp	Ala	Leu	Ile	His	Thr	Thr
145					150					155					160
Leu	Ala	Phe	Arg	Leu	Cys	Phe	Cys	Gly	Ser	Asn	Glu	Ile	Asn	His	Phe
			165						170					175	
Phe	Cys	Asp	Leu	Pro	Pro	Leu	Tyr	Leu	Leu	Ser	Cys	Ser	Asp	Thr	Gln
			180					185					190		
Val	Asn	Tyr	Leu	Ala	Leu	Phe	Thr	Ile	Tyr	Gly	Phe	Leu	Glu	Leu	Ser

		195					200				205								
Thr	Ile	Ser	Gly	Val	Leu	Val	Ser	Tyr	Cys	Tyr	Ile	Ile	Ser	Ser	Ile				
	210					215					220								
Leu	Lys	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Phe	Lys	Ala	Phe	Ser	Thr	Cys				
225					230					235					240				
Thr	Ser	His	Leu	Thr	Ala	Val	Ala	Ile	Phe	Gln	Gly	Thr	Leu	Leu	Phe				
			245						250					255					
Thr	Tyr	Phe	Arg	Pro	Ser	Ser	Ser	Tyr	Ser	Leu	Asp	Gln	Asp	Lys	Met				
		260						265				270							
Thr	Ser	Leu	Phe	Tyr	Thr	Leu	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile				
	275					280						285							
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Leu	Lys	Lys	Ile	Lys				
	290					295					300								
Arg	Lys	Arg	Trp	Phe															
305																			

<210> 1778

<211> 307

<212> PRT

<213> Mus musculus

<400> 1778

Met	Asn	Ile	Gly	Asn	Cys	Ser	Leu	Asn	Glu	Phe	Ile	Phe	Val	Gly	Val				
1				5				10						15					
Thr	Asn	Asn	Pro	Glu	Met	Lys	Gly	Thr	Leu	Phe	Thr	Ile	Phe	Leu	Leu				
			20					25					30						
Ile	Tyr	Leu	Ile	Asn	Leu	Leu	Gly	Asn	Ile	Gly	Met	Ile	Ile	Leu	Ile				
	35					40					45								
Arg	Met	Asp	Pro	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His				
	50					55				60									
Leu	Ser	Phe	Cys	Asp	Leu	Cys	Tyr	Ser	Thr	Ala	Ile	Gly	Pro	Lys	Met				
65				70					75					80					
Leu	Val	Asp	Met	Phe	Gly	Lys	Asn	Lys	Ser	Ile	Pro	Phe	Trp	Gly	Cys				
			85					90					95						
Ala	Val	Gln	Phe	Phe	Ile	Ser	Cys	Thr	Phe	Ala	Asp	Ser	Glu	Cys	Val				
		100						105					110						
Leu	Leu	Ala	Val	Met	Ala	Phe	Asp	Arg	Tyr	Gln	Ala	Ile	Ser	Asn	Pro				
	115						120					125							
Leu	Leu	Tyr	Thr	Ala	Asn	Met	Ser	Ser	Arg	Lys	Cys	Phe	Met	Phe	Met				
	130					135					140								
Ala	Gly	Val	Tyr	Leu	Val	Gly	Thr	Ser	Asp	Ala	Leu	Ile	His	Thr	Thr				
145					150				155						160				
Leu	Ala	Phe	Arg	Leu	Cys	Phe	Cys	Gly	Ser	Asn	Glu	Ile	Asn	His	Phe				
			165					170						175					
Phe	Cys	Asp	Leu	Pro	Pro	Leu	Tyr	Leu	Leu	Ser	Cys	Ser	Asp	Thr	Gln				
		180						185					190						
Val	Asn	Tyr	Leu	Ala	Leu	Phe	Thr	Ile	Tyr	Gly	Phe	Leu	Glu	Leu	Ser				
	195						200					205							
Thr	Ile	Ser	Gly	Val	Leu	Val	Ser	Tyr	Cys	Tyr	Ile	Ile	Ser	Ser	Val				
	210					215					220								
Leu	Lys	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Phe	Lys	Ala	Phe	Ser	Thr	Cys				
225					230					235					240				
Thr	Ser	His	Leu	Thr	Ala	Val	Ala	Ile	Phe	Gln	Gly	Thr	Leu	Leu	Phe				
			245						250					255					
Thr	Tyr	Phe	Arg	Pro	Ser	Ser	Ser	Tyr	Ser	Leu	Asp	Gln	Asp	Lys	Met				
		260						265					270						

Thr	Ser	Leu	Phe	Tyr	Thr	Leu	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Leu	Gly	Lys	Met	Lys
		290				295					300				
Arg	Lys	Arg													
305															

<210> 1779  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1779

Met	Arg	Ala	Asn	Gln	Thr	Trp	Ile	Thr	Glu	Val	Thr	Leu	Leu	Gly	Phe
1				5					10					15	
Gln	Ala	Asp	Leu	Ser	Val	Glu	Cys	Phe	Leu	Phe	Gly	Leu	Phe	Ser	Leu
			20					25					30		
Phe	Tyr	Ser	Phe	Thr	Leu	Leu	Gly	Asn	Gly	Ile	Ile	Leu	Val	Val	Ile
		35					40					45			
Cys	Leu	Asp	Asn	Arg	Leu	His	Ile	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His
	50					55					60				
Leu	Ala	Ile	Val	Asp	Met	Ser	Tyr	Ala	Ser	Asn	Val	Pro	Lys	Met	
65					70					75				80	
Leu	Ala	Asn	Leu	Val	Thr	Gln	Arg	Arg	Thr	Ile	Ser	Phe	Ile	Leu	Cys
			85						90					95	
Ile	Met	Gln	Thr	Phe	Leu	Tyr	Leu	Ala	Phe	Ala	Cys	Thr	Glu	Cys	Leu
			100					105					110		
Ile	Leu	Val	Val	Met	Ser	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His	Pro
		115					120					125			
Leu	His	Tyr	Thr	Val	Ile	Met	Ser	Trp	Lys	Val	Cys	Thr	Ile	Leu	Ala
		130				135					140				
Ala	Val	Ser	Trp	Ile	Ala	Gly	Phe	Leu	Leu	Ala	Leu	Val	His	Leu	Val
145					150					155					160
Leu	Ile	Leu	Lys	Leu	Pro	Phe	Cys	Gly	Pro	His	Glu	Ile	Asn	His	Phe
			165					170						175	
Phe	Cys	Glu	Ile	Leu	Ser	Val	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr	Thr
		180						185					190		
Leu	Asn	Gln	Val	Val	Ile	Leu	Ala	Ala	Cys	Val	Phe	Ile	Leu	Val	Gly
		195					200					205			
Pro	Leu	Cys	Leu	Val	Leu	Val	Ser	Tyr	Thr	Arg	Ile	Leu	Val	Thr	Ile
	210					215					220				
Leu	Arg	Ile	Gln	Ser	Gly	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ser	Ser	His	Leu	Cys	Val	Val	Gly	Leu	Phe	Phe	Gly	Ser	Ala	Ile	Val
			245						250					255	
Met	Tyr	Met	Ala	Pro	Lys	Ser	Gln	His	Pro	Glu	Leu	Gln	Gln	Lys	Ile
			260					265						270	
Leu	Ser	Leu	Phe	Tyr	Ser	Leu	Phe	Asn	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Cys	Leu	Arg	Asn	Ala	Glu	Val	Lys	Gly	Ala	Leu	Arg	Arg	Ser	Leu
	290					295					300				
Trp	Lys	Glu	Arg	Pro	Met										
305					310										

<210> 1780

<211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1780

Met	Arg	Ala	Asn	Gln	Thr	Trp	Ile	Thr	Glu	Val	Thr	Leu	Leu	Gly	Phe
1				5					10					15	
Gln	Ala	Asp	Leu	Ala	Val	Glu	Cys	Phe	Leu	Phe	Gly	Leu	Phe	Ser	Leu
		20						25					30		
Phe	Tyr	Ser	Phe	Thr	Leu	Leu	Gly	Asn	Gly	Ile	Ile	Leu	Val	Val	Ile
		35					40					45			
Cys	Leu	Asp	Asn	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His
	50					55					60				
Leu	Ala	Ile	Val	Asp	Met	Ser	Tyr	Ala	Ser	Asn	Asn	Val	Pro	Lys	Met
65					70					75					80
Leu	Ala	Asn	Leu	Val	Thr	Gln	Arg	Arg	Thr	Ile	Ser	Phe	Ile	Pro	Cys
			85						90					95	
Ile	Met	Gln	Thr	Phe	Leu	Tyr	Leu	Ala	Phe	Ala	Ser	Ile	Glu	Cys	Leu
		100						105					110		
Ile	Leu	Val	Val	Met	Ser	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His	Pro
	115						120					125			
Leu	His	Tyr	Thr	Val	Ile	Met	Ser	Trp	Arg	Val	Cys	Thr	Ile	Met	Ala
	130					135					140				
Ala	Val	Ser	Trp	Ile	Val	Gly	Phe	Leu	Leu	Ala	Leu	Val	His	Leu	Ile
145					150					155					160
Leu	Ile	Leu	Arg	Leu	Pro	Phe	Cys	Gly	Pro	His	Lys	Val	Asn	His	Phe
			165					170						175	
Phe	Cys	Glu	Ile	Leu	Ser	Val	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr	Thr
		180						185					190		
Leu	Asn	Gln	Val	Val	Ile	Phe	Ala	Ala	Cys	Val	Phe	Ile	Leu	Val	Gly
	195						200					205			
Pro	Leu	Cys	Met	Val	Leu	Val	Ser	Tyr	Thr	Arg	Ile	Leu	Val	Ala	Ile
	210					215					220				
Leu	Arg	Ile	Gln	Ser	Gly	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ser	Ser	His	Leu	Cys	Val	Val	Gly	Leu	Phe	Phe	Gly	Ser	Ala	Ile	Val
			245						250					255	
Met	Tyr	Met	Ala	Pro	Lys	Ser	Gln	His	Pro	Glu	Met	Gln	Gln	Lys	Ile
		260						265					270		
Leu	Ser	Leu	Phe	Tyr	Ser	Leu	Phe	Asn	Pro	Met	Leu	Asn	Pro	Leu	Ile
	275						280					285			
Tyr	Cys	Leu	Arg	Asn	Ala	Glu	Val	Lys	Gly	Ala	Leu	Arg	Arg	Ser	Leu
	290					295					300				
Leu	Lys	Glu	Arg	Ser	Met										
305					310										

<210> 1781  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1781

Met	Lys	Ala	Asn	Gln	Thr	Trp	Ile	Thr	Glu	Val	Thr	Leu	Leu	Gly	Phe
1				5					10					15	
Gln	Ala	Asp	Leu	Ala	Val	Glu	Cys	Phe	Leu	Phe	Gly	Leu	Phe	Ser	Leu
		20						25					30		

Phe	Tyr	Ser	Phe	Thr	Leu	Leu	Gly	Asn	Gly	Ile	Ile	Phe	Gly	Ile	Ile
	35						40					45			
Cys	Leu	Asp	His	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His
	50					55					60				
Leu	Ala	Ile	Val	Asp	Met	Ser	Tyr	Ala	Ser	Asn	Val	Pro	Lys	Met	
65					70					75				80	
Leu	Ala	Asn	Leu	Val	Thr	Gln	Arg	Arg	Thr	Ile	Ser	Phe	Ile	Pro	Cys
				85					90					95	
Leu	Met	Gln	Thr	Phe	Leu	Tyr	Leu	Ala	Phe	Ala	His	Ile	Glu	Cys	Leu
			100					105					110		
Ile	Leu	Val	Val	Met	Ser	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His	Pro
	115						120					125			
Leu	His	Tyr	Thr	Val	Ile	Met	Ser	Trp	Arg	Val	Cys	Thr	Ile	Leu	Ala
	130					135					140				
Ala	Val	Ser	Trp	Ile	Phe	Ser	Phe	Leu	Leu	Ala	Leu	Val	His	Leu	Val
145					150					155					160
Leu	Ile	Leu	Arg	Leu	Pro	Phe	Cys	Gly	Pro	His	Glu	Val	Asn	His	Phe
				165					170					175	
Phe	Cys	Glu	Ile	Leu	Ser	Val	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr	Thr
		180						185					190		
Leu	Asn	Gln	Val	Val	Ile	Phe	Ala	Ala	Cys	Val	Phe	Ile	Leu	Val	Gly
	195						200					205			
Pro	Leu	Cys	Leu	Val	Leu	Val	Ser	Tyr	Thr	Arg	Ile	Leu	Val	Ala	Ile
	210					215					220				
Leu	Arg	Ile	Gln	Ser	Gly	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ser	Ser	His	Leu	Cys	Val	Val	Gly	Leu	Phe	Phe	Gly	Ser	Ala	Ile	Val
				245					250					255	
Met	Tyr	Met	Ala	Pro	Lys	Ser	Gln	His	Pro	Glu	Leu	Gln	Gln	Lys	Ile
		260						265					270		
Leu	Ser	Leu	Phe	Tyr	Ser	Leu	Phe	Asn	Pro	Met	Leu	Asn	Pro	Leu	Ile
	275						280					285			
Tyr	Ser	Leu	Arg	Asn	Ala	Glu	Val	Lys	Gly	Ala	Leu	Arg	Arg	Ser	Leu
	290					295					300				
Leu	Lys	Glu	Arg	Ser	Met										
305					310										

<210> 1782  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1782

Met	Lys	Glu	Asn	Gln	Thr	Met	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Phe
1				5					10					15	
Cys	Leu	Gly	Pro	Arg	Ile	His	Val	Ile	Leu	Phe	Ala	Leu	Phe	Ser	Val
		20						25				30			
Cys	Tyr	Ile	Phe	Thr	Leu	Leu	Gly	Asn	Gly	Phe	Thr	Leu	Gly	Leu	Ile
	35						40					45			
Cys	Leu	Glu	Pro	Arg	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn
	50					55					60				
Leu	Ala	Thr	Val	Asp	Ile	Ala	Tyr	Ala	Cys	Asn	Thr	Val	Pro	Gln	Thr
65					70					75					80
Leu	Val	Asn	Leu	Leu	Asp	Glu	Thr	Lys	Pro	Ile	Ser	Phe	Ala	Gly	Cys
				85					90					95	
Met	Met	Gln	Thr	Tyr	Leu	Phe	Leu	Thr	Phe	Gly	Ser	Thr	Glu	Cys	Val





Phe	Cys	Glu	Ile	Thr	Ala	Ile	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr	His
			180					185					190		
Leu	Asn	Glu	Thr	Met	Val	Leu	Ala	Gly	Ala	Val	Ser	Val	Leu	Val	Gly
	195						200					205			
Pro	Phe	Ser	Ser	Ile	Val	Val	Ser	Tyr	Ala	Cys	Ile	Leu	Gly	Ala	Ile
	210					215					220				
Leu	Lys	Ile	Gln	Ser	Glu	Gly	Gln	Arg	Lys	Ala	Phe	Ser	Thr	Cys	
225					230				235					240	
Ser	Ser	His	Leu	Cys	Val	Val	Gly	Leu	Phe	Tyr	Gly	Thr	Ala	Ile	Val
			245					250						255	
Met	Tyr	Val	Gly	Pro	Arg	His	Gly	Ser	Pro	Lys	Glu	Gln	Lys	Lys	Tyr
		260					265						270		
Leu	Leu	Leu	Phe	His	Ser	Leu	Phe	Asn	Pro	Met	Leu	Asn	Pro	Leu	Ile
	275						280					285			
Tyr	Ser	Leu	Arg	Asn	Ser	Asp	Val	Lys	Asn	Thr	Leu	Lys	Arg	Val	Leu
	290					295					300				
Arg	Thr	Gln	Arg	Ala	Leu										
305					310										

<210> 1784  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1784

Met	Met	Arg	Arg	Asn	His	Thr	Val	Ile	Ser	Glu	Phe	Val	Phe	Gln	Gly
1				5					10					15	
Phe	Ser	Ser	Phe	Gln	Glu	Tyr	Lys	Phe	Thr	Leu	Phe	Met	Val	Phe	Leu
			20					25					30		
Thr	Leu	Tyr	Leu	Leu	Thr	Leu	Thr	Gly	Asn	Ala	Ile	Ile	Met	Ile	Ile
	35					40						45			
Ile	Gly	Ile	Asp	Arg	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
50					55						60				
Met	Leu	Ser	Thr	Ser	Glu	Thr	Val	Tyr	Thr	Leu	Val	Ile	Val	Pro	Arg
65					70					75					80
Met	Leu	Ala	Ser	Leu	Val	Gly	Ser	Ser	Gln	Ser	Ile	Ser	Leu	Ala	Gly
			85						90					95	
Cys	Ala	Thr	Gln	Met	Phe	Phe	Phe	Ile	Thr	Leu	Ala	Ile	Asn	Asn	Cys
			100					105					110		
Phe	Leu	Leu	Thr	Ala	Met	Gly	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
	115					120						125			
Pro	Leu	Arg	Tyr	Ser	Val	Ile	Met	Asn	Lys	Arg	Val	Cys	Ala	Gln	Leu
	130					135					140				
Val	Trp	Gly	Ser	Cys	Asn	Ile	Gly	Leu	Leu	Val	Ala	Ile	Ile	Gln	Ile
145					150					155					160
Ala	Ser	Val	Phe	Arg	Ala	Pro	Phe	Cys	Asp	Arg	Glu	Val	Ala	His	Tyr
			165						170					175	
Phe	Cys	Asp	Ile	Arg	Pro	Val	Met	Lys	Leu	Ser	Cys	Ala	Asp	Thr	Thr
			180					185					190		
Leu	His	Asp	Ile	Val	Asn	Phe	Ile	Ile	Ser	Ser	Leu	Val	Ile	Val	Val
	195					200						205			
Pro	Met	Gly	Leu	Val	Phe	Ile	Ser	Tyr	Ile	Leu	Ile	Ile	Ser	Thr	Ile
	210					215						220			
Leu	Lys	Ile	Ala	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Ala	Phe	Ala	Thr	Cys
225					230					235					240
Ala	Ser	His	Leu	Thr	Val	Val	Ile	Ile	His	Tyr	Gly	Cys	Ala	Ser	Ile

				245					250				255				
Ala	Tyr	Leu	Lys	Pro	Lys	Ser	Glu	Asn	Thr	Arg	Asp	Gln	Asp	Gln	Leu		
			260					265					270				
Ile	Ser	Val	Thr	Tyr	Thr	Val	Phe	Thr	Pro	Leu	Leu	Asn	Pro	Val	Val		
		275					280					285					
Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Lys	Asp	Ala	Ile	Tyr	Arg	Ala	Ile		
	290					295					300						
Gly	Lys	Lys	Pro	Leu	Ala												
305					310												

<210> 1785  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 1785

Met	Ala	Tyr	Glu	Val	Met	Asn	Gln	Thr	Ser	Ala	Thr	Thr	Phe	Ile	Leu		
1				5				10					15				
Val	Gly	Phe	Ser	Glu	Tyr	Pro	Gln	Leu	Gln	Lys	Pro	Leu	Phe	Leu	Leu		
			20					25					30				
Phe	Leu	Ala	Ile	Tyr	Ser	Val	Thr	Leu	Val	Gly	Asn	Leu	Gly	Ile	Leu		
		35				40					45						
Val	Val	Ile	Lys	Val	Asn	Pro	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe		
	50				55						60						
Leu	Ser	His	Leu	Ser	Phe	Leu	Asp	Ile	Cys	Tyr	Ser	Ser	Val	Phe	Thr		
65				70					75						80		
Pro	Lys	Leu	Leu	Gln	Ile	Leu	Ile	Met	Glu	Asp	Arg	Thr	Val	Ser	Phe		
				85				90						95			
Lys	Ala	Cys	Met	Val	Gln	Phe	Phe	Phe	Ile	Cys	Thr	Phe	Val	Ile	Thr		
		100						105					110				
Glu	Met	Phe	Met	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Val		
		115					120					125					
Cys	Asn	Pro	Leu	Leu	Tyr	Thr	Val	Val	Met	Pro	Phe	Gln	Phe	Cys	Ala		
	130					135					140						
Leu	Leu	Val	Ala	Gly	Thr	Tyr	Met	Ile	Gly	Gly	Leu	Cys	Thr	Val	Ile		
145					150					155					160		
Leu	Leu	Tyr	Thr	Leu	Leu	Gln	Leu	Ser	Tyr	Cys	Glu	Tyr	Gly	Ile	Ile		
			165					170						175			
Asn	His	Phe	Gly	Cys	Glu	Tyr	Ser	Ala	Val	Ile	Ser	Val	Ser	Cys	Ser		
		180						185					190				
Asp	Ser	Ser	Phe	Ser	Gln	Leu	Thr	Ser	Leu	Val	Ile	Ala	Ile	Val	Ser		
	195					200						205					
Glu	Ser	Ser	Ser	Val	Leu	Ile	Thr	Leu	Ala	Ser	Tyr	Val	Phe	Ile	Val		
	210					215						220					
Val	Thr	Ile	Ile	Lys	Met	Pro	Ser	Lys	Gly	Gly	Leu	Arg	Lys	Ala	Phe		
225					230					235					240		
Ser	Thr	Cys	Thr	Ser	His	Leu	Thr	Ala	Ile	Ser	Ile	Phe	His	Gly	Ile		
			245					250						255			
Ile	Leu	Leu	Leu	Tyr	Cys	Val	Pro	Asn	Ser	Asn	Ser	Ser	Gln	Leu	Phe		
		260						265					270				
Val	Lys	Val	Ala	Thr	Ala	Leu	Tyr	Thr	Ile	Met	Ile	Pro	Met	Leu	Asn		
	275						280					285					
Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asp	Thr	Val	Arg		
	290					295					300						
Arg	Leu	Ile	Ser	Ser	Lys	Leu	His	Ser	His	Leu	Thr						
305					310					315							

<210> 1786  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 1786  
 Met Gln Lys Pro Lys Phe Leu Gln Ile Met Ser Val Glu Asn Ser Thr  
 1 5 10 15  
 Val Lys Thr Glu Phe Tyr Leu Leu Gly Phe Ser Asp His Pro Glu Leu  
 20 25 30  
 Gln Ser Leu Leu Phe Ala Val Phe Phe Ser Ile Tyr Ser Ile Thr Leu  
 35 40 45  
 Met Gly Asn Ile Gly Met Ile Val Leu Ile Thr Val Ser Pro Asn Leu  
 50 55 60  
 His Ile Pro Met Tyr Phe Phe Leu Cys Met Leu Ser Phe Ile Asp Ala  
 65 70 75 80  
 Cys Tyr Ser Ser Val Ile Ala Pro Lys Leu Leu Val Asp Leu Ile Ser  
 85 90 95  
 Asp Lys Lys Val Ile Ser Tyr Asn Gly Cys Ala Thr Gln Leu Tyr Phe  
 100 105 110  
 Phe Cys Ser Leu Val Asp Thr Glu Ser Phe Leu Leu Ala Ala Met Ala  
 115 120 125  
 Tyr Asp Arg Tyr Ile Ala Ile Cys Asn Pro Leu Leu Tyr Thr Val Ile  
 130 135 140  
 Met Ser Lys Arg Val Cys Ile Gln Leu Ala Phe Gly Ala Phe Leu Gly  
 145 150 155 160  
 Gly Thr Met Ser Ser Ile Ile His Thr Thr Asn Thr Phe Gln Leu Ser  
 165 170 175  
 Phe Cys Ser Lys Val Ile Asn His Phe Phe Cys Asp Val Ser Pro Leu  
 180 185 190  
 Phe Ser Leu Ser Cys Phe Asp Thr Tyr Thr His Asp Ile Ile Leu Val  
 195 200 205  
 Val Phe Ala Ser Leu Val Glu Ala Leu Ser Leu Leu Thr Val Leu Leu  
 210 215 220  
 Ser Tyr Met Tyr Ile Ile Val Ala Ile Cys Lys Ile Gly Ser Ala Glu  
 225 230 235 240  
 Gly Arg Lys Lys Gly Phe Ser Thr Cys Ala Ser His Leu Ala Val Ile  
 245 250 255  
 Thr Ile Tyr His Gly Thr Leu Ile Phe Ile Tyr Leu Arg Pro Ser Thr  
 260 265 270  
 Gly His Ser Met Asn Ile Asp Lys Met Thr Ser Val Phe Tyr Thr Leu  
 275 280 285  
 Ile Ile Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp  
 290 295 300  
 Val Lys Phe Ala Phe Arg Lys Ile Ile Ser Lys Lys Leu Phe Thr  
 305 310 315

<210> 1787  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 1787  
 Met Met Leu Asp Leu Gly Asn Glu Ser Ser Val Thr Met Phe Ile Leu

1				5					10				15		
Ser	Gly	Phe	Ser	Glu	Tyr	Pro	His	Leu	His	Ala	Pro	Leu	Phe	Leu	Leu
			20					25					30		
Phe	Phe	Met	Ile	Tyr	Thr	Val	Thr	Leu	Ile	Gly	Asn	Leu	Gly	Ile	Ile
		35					40					45			
Val	Val	Arg	Lys	Val	Asn	Pro	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe
	50				55						60				
Leu	Ser	His	Leu	Ser	Phe	Leu	Asp	Ile	Cys	Tyr	Ser	Ser	Val	Phe	Thr
65					70					75					80
Pro	Lys	Leu	Leu	Glu	Ile	Leu	Ile	Val	Glu	Asp	Arg	Thr	Ile	Ser	Phe
			85						90					95	
Lys	Gly	Cys	Met	Thr	Gln	Phe	Phe	Phe	Ile	Cys	Ala	Phe	Val	Ile	Thr
			100					105					110		
Glu	Met	Phe	Met	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Val
		115					120					125			
Cys	Asn	Pro	Leu	Leu	Tyr	Thr	Val	Ser	Met	Ser	Pro	Lys	Leu	Cys	Ala
	130					135					140				
Phe	Leu	Val	Ala	Gly	Thr	Tyr	Met	Trp	Gly	Val	Leu	Cys	Ser	Leu	Thr
145					150				155						160
Ile	Thr	Tyr	Ser	Leu	Leu	Gln	Leu	Ser	Tyr	Cys	Gly	Pro	Asn	Ile	Ile
			165						170					175	
Asn	His	Phe	Gly	Cys	Glu	Tyr	Ser	Ala	Ile	Leu	Ser	Leu	Ser	Cys	Ser
		180						185					190		
Asp	Pro	Thr	Phe	Ser	Gln	Val	Val	Cys	Leu	Thr	Ile	Ser	Ile	Phe	Asn
		195				200						205			
Glu	Thr	Cys	Ser	Leu	Leu	Ile	Ile	Leu	Ala	Ser	Tyr	Val	Phe	Ile	Val
	210				215					220					
Val	Thr	Ile	Ile	Lys	Met	Pro	Ser	Lys	Gly	Gly	Leu	Gln	Lys	Ala	Phe
225					230					235					240
Ser	Thr	Cys	Ser	Ser	His	Leu	Thr	Ala	Ile	Ser	Ile	Phe	His	Gly	Ile
			245					250						255	
Ile	Leu	Leu	Leu	Tyr	Cys	Val	Pro	Asn	Ser	Lys	Asn	Ser	Trp	Leu	Val
		260					265					270			
Val	Lys	Val	Ala	Thr	Val	Leu	Phe	Thr	Val	Met	Ile	Pro	Met	Leu	Asn
	275					280					285				
Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Thr	Val	Ser
	290				295					300					
Arg	Leu	Met	His	Leu	Lys	Leu	Gln	Ala	His	Ser	Thr				
305				310					315						

<210> 1788  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1788  
 Met Ser Val Glu Asn Ser Thr Val Lys Thr Glu Phe Tyr Leu Leu Gly  
 1 5 10 15  
 Phe Ser Asp His Pro Glu Leu Gln Ser Leu Leu Phe Ala Val Phe Phe  
 20 25 30  
 Phe Ile Tyr Ser Ile Thr Leu Met Gly Asn Ile Gly Met Ile Leu Leu  
 35 40 45  
 Ile Thr Val Ser Pro Asn Leu His Ile Pro Met Tyr Phe Phe Leu Cys  
 50 55 60  
 Met Leu Ser Phe Ile Asp Ala Cys Tyr Ser Ser Val Ile Ala Pro Lys  
 65 70 75 80

Leu	Leu	Glu	Asp	Leu	Ile	Ser	Asp	Lys	Lys	Val	Ile	Ser	Tyr	Asn	Gly
				85					90					95	
Cys	Ala	Thr	Gln	Leu	Tyr	Phe	Phe	Cys	Ser	Leu	Val	Asp	Thr	Glu	Ser
			100					105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Asn
		115					120					125			
Pro	Leu	Leu	Tyr	Thr	Val	Ile	Met	Ser	Lys	Arg	Val	Cys	Thr	His	Leu
	130					135					140				
Ala	Phe	Gly	Ala	Phe	Leu	Gly	Gly	Thr	Met	Ser	Ser	Ile	Ile	His	Thr
145					150					155					160
Thr	Asn	Thr	Phe	Gln	Leu	Ser	Phe	Cys	Ser	Lys	Val	Ile	Asn	His	Phe
				165					170					175	
Phe	Cys	Asp	Ile	Ser	Pro	Leu	Phe	Ser	Leu	Ser	Cys	Thr	Asp	Thr	Tyr
		180						185					190		
Thr	His	Asp	Ile	Ile	Leu	Val	Val	Phe	Ala	Ser	Leu	Val	Glu	Ala	Val
		195					200					205			
Ser	Leu	Leu	Ala	Val	Leu	Leu	Ser	Tyr	Met	Tyr	Ile	Ile	Val	Ala	Ile
	210					215					220				
Leu	Lys	Thr	Gly	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Gly	Phe	Ser	Thr	Cys
225					230					235					240
Ala	Ser	His	Leu	Thr	Val	Val	Thr	Ile	Tyr	His	Gly	Thr	Leu	Ile	Phe
				245					250					255	
Ile	Tyr	Leu	Arg	Pro	Ser	Thr	Gly	His	Ser	Met	Asp	Ile	Asp	Lys	Met
		260					265						270		
Thr	Ser	Val	Phe	Tyr	Thr	Leu	Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile	
		275				280					285				
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Phe	Ala	Phe	Arg	Lys	Ile	Met
	290					295					300				
Ser	Lys	Lys	Ser	Phe	Ser										
305					310										

<210> 1789  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 1789

Met	Ile	Met	Glu	Phe	Thr	Ser	Gly	Asn	Tyr	Thr	Leu	Val	Thr	Glu	Phe
1				5					10					15	
Ile	Leu	Leu	Gly	Phe	Pro	Thr	Arg	Pro	Glu	Leu	Gln	Ile	Ile	Leu	Phe
		20						25					30		
Leu	Val	Phe	Leu	Thr	Leu	Tyr	Gly	Met	Ile	Leu	Ile	Gly	Asn	Ile	Gly
	35						40					45			
Leu	Met	Leu	Leu	Ile	Arg	Thr	Asp	Pro	His	Leu	Gln	Thr	Pro	Met	Tyr
	50					55				60					
Phe	Phe	Leu	Ser	Asn	Leu	Ser	Phe	Val	Asp	Leu	Cys	Tyr	Ser	Ser	Val
65				70					75						80
Ile	Val	Pro	Asn	Met	Leu	Val	Asn	Phe	Leu	Ser	Ala	Lys	Lys	Ser	Ile
			85					90						95	
Ser	Tyr	Leu	Gly	Cys	Ala	Leu	Gln	Phe	Tyr	Phe	Phe	Cys	Thr	Phe	Ala
		100					105						110		
Asp	Thr	Glu	Ser	Phe	Ile	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val
	115						120					125			
Ala	Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Thr	Val	Ala	Met	Ser	Arg	Ser	Leu
	130					135					140				
Cys	Ile	Trp	Leu	Ile	Val	Leu	Ser	Tyr	Val	Gly	Gly	Asn	Met	Ser	Ser

145					150					155				160
Leu	Val	His	Thr	Ser	Phe	Ala	Phe	Ile	Leu	Lys	Tyr	Cys	Asp	Lys
				165					170					175
Ile	Ile	Asn	His	Phe	Phe	Cys	Asp	Leu	Pro	Pro	Leu	Leu	Lys	Leu
			180					185					190	
Cys	Thr	Asp	Thr	Ser	Ile	Asn	Glu	Trp	Leu	Leu	Ser	Thr	Tyr	Gly
		195					200					205		
Ser	Val	Glu	Ile	Ile	Cys	Phe	Phe	Ile	Ile	Ile	Ile	Ser	Tyr	Phe
	210					215					220			
Ile	Leu	Leu	Ser	Val	Leu	Lys	Ile	Arg	Ser	Thr	Ser	Gly	Arg	Lys
225					230					235				240
Thr	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Ser	Val	Ala	Ile	Tyr
				245					250					255
Gly	Thr	Leu	Leu	Phe	Ile	Tyr	Ser	Arg	Pro	Ser	Ser	Leu	Tyr	Ser
			260					265					270	
Asn	Thr	Asp	Lys	Ile	Ile	Ser	Val	Phe	Tyr	Thr	Ile	Ile	Ile	Pro
		275					280					285		Val
Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asp
	290					295				300				Ala
Ala	Lys	Lys	Ala	Leu	Arg	Ser	Lys	Ile	Gln	Ser	Pro			
305					310					315				

<210> 1790  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1790

Met	Ser	Val	Glu	Asn	Ser	Thr	Val	Lys	Thr	Glu	Phe	Tyr	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Asp	His	Pro	Glu	Leu	Gln	Ser	Leu	Leu	Phe	Ala	Val	Phe	Phe
			20					25					30		
Ser	Ile	Tyr	Ser	Ile	Thr	Leu	Met	Gly	Asn	Ile	Gly	Met	Ile	Val	Leu
		35				40						45			
Ile	Thr	Val	Ser	Pro	Asn	Leu	His	Ile	Pro	Met	Tyr	Phe	Phe	Leu	Trp
	50				55						60				
Met	Leu	Ser	Phe	Ile	Asp	Ala	Cys	Ser	Ser	Ser	Val	Ile	Ala	Pro	Lys
65					70					75				80	
Leu	Leu	Val	Asp	Leu	Ile	Ser	Asp	Lys	Lys	Val	Ile	Ser	Tyr	Asn	Gly
			85						90					95	
Cys	Ala	Thr	Gln	Phe	Tyr	Phe	Cys	Cys	Ser	Leu	Val	Asp	Thr	Glu	Ser
			100					105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Asn
			115					120				125			
Pro	Leu	Leu	Tyr	Thr	Val	Ile	Met	Ser	Lys	Arg	Val	Cys	Thr	Gln	Leu
	130					135					140				
Ala	Phe	Glu	Ala	Phe	Leu	Gly	Gly	Thr	Met	Ser	Ser	Ile	Ile	His	Thr
145					150				155					160	
Thr	Asn	Thr	Phe	Gln	Leu	Ser	Phe	Cys	Ser	Lys	Glu	Ile	Asn	His	Phe
			165						170					175	
Phe	Cys	Asp	Met	Thr	Pro	Leu	Phe	Ser	Leu	Ser	Cys	Phe	Asp	Thr	Tyr
		180						185					190		
Thr	His	Asp	Ile	Ile	Leu	Val	Val	Phe	Ala	Ser	Leu	Val	Glu	Ala	Val
		195				200						205			
Cys	Leu	Leu	Ala	Val	Leu	Leu	Ser	Tyr	Met	Tyr	Ile	Ile	Val	Ala	Ile
	210					215					220				

Leu	Lys	Thr	Gly	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Gly	Phe	Ser	Thr	Cys
225					230					235					240
Ala	Ser	His	Leu	Ala	Val	Ile	Thr	Ile	Tyr	His	Gly	Thr	Leu	Ile	Phe
				245					250						255
Ile	Tyr	Leu	Arg	Pro	Ser	Thr	Gly	His	Ser	Met	Asp	Ile	Asp	Lys	Met
			260					265					270		
Thr	Ser	Val	Phe	Tyr	Thr	Leu	Ile	Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Phe	Ala	Phe	Arg	Lys	Ile	Ile
	290					295					300				
Ser	Lys	Lys	Leu	Phe	Phe	Leu	Val	Ile							
305					310										

<210> 1791  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 1791

Met	Val	Pro	Leu	Glu	Ile	Asn	Val	Ser	Val	Glu	Ile	Asn	Phe	Val	Leu
1				5					10					15	
Leu	Gly	Phe	Thr	Asp	Tyr	Pro	Asn	Leu	Gln	Ile	Pro	Leu	Phe	Leu	Ile
			20					25					30		
Phe	Leu	Phe	Met	Tyr	Ile	Ile	Thr	Val	Val	Gly	Asn	Leu	Gly	Met	Thr
		35					40					45			
Val	Leu	Ile	Asn	Ile	Asp	His	Lys	Phe	His	Thr	Pro	Met	Tyr	Phe	Phe
	50					55					60				
Leu	Ser	His	Leu	Ser	Phe	Val	Asp	Phe	Cys	Tyr	Ser	Thr	Ile	Ile	Thr
65					70				75						80
Pro	Lys	Leu	Leu	Glu	Asn	Leu	Val	Leu	Ala	Asp	Lys	Thr	Ile	Leu	Tyr
			85						90					95	
Phe	Ser	Cys	Met	Leu	Gln	Tyr	Phe	Leu	Ser	Cys	Val	Ala	Leu	Val	Ser
			100					105					110		
Glu	Ser	Tyr	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile
		115					120					125			
Cys	Asn	Pro	Leu	Leu	Tyr	Thr	Val	Ala	Met	Ser	Pro	Arg	Leu	Cys	Ile
	130					135					140				
Leu	Leu	Val	Thr	Gly	Ser	Tyr	Ile	Trp	Ser	Thr	Phe	Glu	Thr	Leu	Ile
145				150					155						160
Leu	Leu	Cys	Tyr	Ala	Leu	Gln	Leu	Lys	Phe	Ser	Arg	Phe	Asn	Val	Ile
			165						170					175	
Asn	His	Phe	Phe	Cys	Glu	Tyr	Thr	Ala	Leu	Ile	Val	Val	Ser	Ser	Ser
			180					185					190		
Asp	Ile	His	Ile	Pro	Ser	Leu	Leu	Leu	Phe	Cys	Phe	Ala	Thr	Phe	Asn
		195					200					205			
Glu	Val	Ser	Thr	Leu	Leu	Ile	Ile	Leu	Thr	Ser	Tyr	Val	Leu	Ile	Phe
	210					215					220				
Val	Thr	Val	Leu	Lys	Ile	Lys	Ser	Ala	Ser	Gly	Arg	Arg	Lys	Ala	Phe
225				230					235						240
Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Ala	Ile	Thr	Ile	Phe	His	Gly	Thr
			245					250						255	
Ile	Leu	Ser	Leu	Tyr	Cys	Val	Pro	Asn	Ser	Lys	Asn	Ser	Arg	Asn	Ala
		260					265						270		
Val	Lys	Val	Ala	Ser	Val	Phe	Tyr	Ala	Val	Val	Asn	Pro	Leu	Leu	Asn
	275						280					285			
Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Val	Phe	Gln

290		295		300							
Lys	Leu	Val	Ser	Thr	Ser	Leu	Lys	Phe	Gln	Leu	His
305					310					315	

<210> 1792  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1792

Met	Thr	Leu	Ser	Asp	Gly	Asn	His	Ser	Gly	Ala	Val	Phe	Thr	Leu	Leu
1				5					10					15	
Gly	Phe	Ser	Asp	Tyr	Pro	Glu	Leu	Thr	Ile	Pro	Leu	Phe	Leu	Ile	Phe
			20					25					30		
Leu	Thr	Ile	Tyr	Ser	Ile	Thr	Val	Val	Gly	Asn	Ile	Gly	Met	Ile	Val
		35				40						45			
Ile	Ile	Arg	Ile	Asn	Pro	Lys	Leu	His	Ile	Pro	Met	Tyr	Phe	Phe	Leu
	50				55						60				
Ser	His	Leu	Ser	Phe	Val	Asp	Phe	Cys	Tyr	Ser	Ser	Ile	Val	Ala	Pro
65					70					75					80
Lys	Met	Leu	Val	Asn	Leu	Val	Thr	Met	Asn	Arg	Gly	Ile	Ser	Phe	Val
			85						90					95	-
Gly	Cys	Leu	Val	Gln	Phe	Phe	Phe	Phe	Cys	Thr	Phe	Val	Val	Thr	Glu
			100					105					110		
Ser	Phe	Leu	Leu	Gly	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Arg
		115					120					125			
Asn	Pro	Leu	Leu	Tyr	Thr	Val	Ala	Met	Ser	Gln	Arg	Leu	Cys	Ala	Met
	130					135					140				
Leu	Val	Leu	Gly	Ser	Tyr	Ala	Trp	Gly	Val	Val	Cys	Ser	Leu	Ile	Leu
145					150					155					160
Thr	Cys	Ser	Ala	Leu	Asn	Leu	Ser	Phe	Tyr	Gly	Phe	Asn	Met	Ile	Asn
			165						170					175	
His	Phe	Phe	Cys	Glu	Phe	Ser	Ser	Leu	Leu	Ser	Leu	Ser	Arg	Ser	Asp
			180					185					190		
Thr	Ser	Val	Ser	Gln	Leu	Leu	Leu	Phe	Val	Phe	Ala	Thr	Phe	Asn	Glu
		195				200						205			
Ile	Ser	Thr	Leu	Leu	Ile	Ile	Leu	Leu	Ser	Tyr	Val	Leu	Ile	Val	Val
	210				215						220				
Thr	Ile	Leu	Lys	Met	Lys	Ser	Ala	Ser	Gly	Arg	Arg	Lys	Ala	Phe	Ser
225					230					235					240
Thr	Cys	Ala	Ser	His	Leu	Thr	Ala	Ile	Thr	Ile	Phe	His	Gly	Thr	Ile
			245						250					255	
Leu	Phe	Leu	Tyr	Cys	Val	Pro	Asn	Ser	Lys	Asn	Ser	Arg	His	Thr	Val
		260					265						270		
Lys	Val	Ala	Ser	Val	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro
		275					280					285			
Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asp	Thr	Val	Lys	Lys
	290					295					300				
Ile	Ile	Gly	Thr	Lys	Val	Tyr	Ser	Ser							
305					310										

<210> 1793  
 <211> 314  
 <212> PRT  
 <213> Mus musculus



<400> 1793

Met	Ile	Leu	Thr	Asp	Ile	Asn	Leu	Thr	Ser	Glu	Val	Thr	Phe	Ala	Leu
1				5					10					15	
Leu	Gly	Phe	Ser	Asp	Tyr	Pro	Glu	Leu	Gln	Val	Pro	Leu	Phe	Leu	Leu
			20				25						30		
Phe	Leu	Ala	Ile	Tyr	Ser	Phe	Ser	Val	Val	Gly	Asn	Ile	Gly	Met	Met
		35					40					45			
Ile	Ile	Ile	Lys	Ile	Asn	Pro	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe
	50				55						60				
Leu	Ser	His	Leu	Ser	Phe	Ala	Asp	Phe	Cys	Tyr	Ser	Ser	Ile	Ile	Ala
65					70					75					80
Pro	Lys	Met	Leu	Val	Asn	Leu	Val	Val	Glu	Asp	Arg	Thr	Ile	Ser	Phe
				85					90					95	
Leu	Gly	Cys	Ile	Met	Gln	Phe	Phe	Phe	Phe	Cys	Thr	Phe	Val	Val	Thr
			100					105					110		
Glu	Leu	Ile	Leu	Phe	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Val
		115					120					125			
Cys	Asn	Pro	Leu	Leu	Tyr	Thr	Val	Val	Met	Ser	Gln	Arg	Leu	Cys	Ala
	130					135					140				
Leu	Leu	Val	Leu	Gly	Ser	Tyr	Ala	Trp	Gly	Val	Val	Cys	Ser	Leu	Thr
145					150					155					160
Leu	Thr	Cys	Ser	Ala	Leu	Asn	Leu	Tyr	Phe	Arg	Gly	Phe	Asn	Thr	Ile
				165					170					175	
Asn	His	Phe	Phe	Cys	Glu	Leu	Ser	Ser	Leu	Ile	Ala	Leu	Ser	Cys	Ser
			180					185					190		
Asp	Ser	His	Leu	Thr	Gln	Leu	Leu	Leu	Phe	Ile	Val	Ala	Thr	Phe	Asn
		195					200					205			
Glu	Ile	Ser	Thr	Leu	Leu	Ile	Ile	Leu	Thr	Ser	Tyr	Leu	Phe	Ile	Val
	210					215					220				
Val	Thr	Ala	Leu	Lys	Met	His	Ser	Ser	Ser	Gly	His	Arg	Lys	Val	Phe
225					230					235					240
Ser	Thr	Cys	Ala	Ser	His	Met	Thr	Ala	Ile	Thr	Ile	Phe	His	Gly	Thr
				245					250					255	
Ile	Leu	Phe	Leu	Tyr	Cys	Val	Pro	Asn	Ser	Lys	Asn	Ser	Arg	His	Thr
		260						265					270		
Val	Lys	Val	Ala	Ser	Leu	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn
	275						280					285			
Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asp	Thr	Val	Ser
	290					295					300				
Lys	Leu	Met	Asn	Val	Arg	Lys	Phe	Ser	Gln						
305					310										

<210> 1794

<211> 311

<212> PRT

<213> Mus musculus

<400> 1794

Met	Asp	Glu	Gly	Asn	Cys	Ser	Ser	Ile	Thr	Glu	Phe	Ile	Leu	Leu	Gly
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Ile	Thr	Asp	Asp	Pro	Ser	Met	Lys	Val	Val	Leu	Phe	Ile	Ser	Phe	Leu
			20					25					30		
Ile	Ile	Tyr	Leu	Ile	Ile	Leu	Val	Ala	Asn	Ile	Gly	Ile	Ile	Val	Leu
		35					40					45			
Ile	Arg	Ile	Asp	Pro	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser

50		55		60	
His	Leu	Ser	Phe	Ser	Asp
65					70
Met	Leu	Val	Asp	Leu	Ala
			85		
Cys	Ala	Leu	Gln	Phe	Phe
			100		
Val	Leu	Leu	Ala	Val	Met
			115		
Pro	Leu	Met	Tyr	Val	Val
			130		
Leu	Ala	Gly	Val	Tyr	Val
145					150
Ile	Ile	Thr	Phe	Gly	Leu
					165
Phe	Phe	Cys	Asp	Leu	Pro
					180
Tyr	Val	Asn	Glu	Leu	Ala
					195
Cys	Thr	Ile	Ser	Gly	Leu
					210
Val	Leu	Lys	Ile	Ser	Ser
225					230
Cys	Ala	Ser	His	Leu	Thr
					245
Phe	Met	Tyr	Phe	Arg	Pro
					260
Thr	Thr	Ser	Leu	Phe	Tyr
					275
Ile	Tyr	Ser	Leu	Arg	Asn
					290
Arg	Asn	Lys	Arg	Ser	Phe
305					310

<210> 1795  
 <211> 326  
 <212> PRT  
 <213> Mus musculus

<400> 1795	
Met	Asn
1	
Asn	Arg
Pro	Asn
Val	Thr
Pro	Lys
65	
Val	Asp
Leu	Ile
Tyr	Phe

Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Val	Cys	Asn	Pro	Leu	Leu	Tyr
130						135					140				
Thr	Val	Ala	Met	Ser	His	Glu	Leu	Cys	Ser	Leu	Leu	Val	Val	Ile	Thr
145					150					155					160
Tyr	Ile	Trp	Ala	Gly	Ile	Phe	Ser	Ser	Thr	Leu	Thr	Tyr	Ile	Leu	Leu
				165						170					175
Gln	Leu	Ser	Tyr	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Phe	Cys	Cys	Glu
				180				185					190		
Tyr	Ser	Ala	Leu	Leu	Ser	Val	Ser	Cys	Ser	Asp	Thr	Ser	Phe	Ser	Gln
		195					200					205			
Met	Ala	Cys	Leu	Val	Ile	Ser	Met	Phe	Asn	Glu	Ala	Cys	Cys	Leu	Leu
	210					215					220				
Ile	Ile	Ile	Thr	Ser	Tyr	Val	Phe	Ile	Val	Val	Thr	Val	Ile	Lys	Ile
225					230					235					240
Pro	Thr	Lys	Gly	Ala	Phe	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Ala	Ser	His
				245					250					255	
Leu	Thr	Ala	Ile	Gly	Val	Cys	His	Gly	Ile	Val	Leu	Leu	Leu	Tyr	Cys
			260					265					270		
Val	Leu	Lys	Ser	Lys	Ser	Ser	Leu	Phe	Leu	Val	Lys	Val	Ala	Thr	Val
		275					280					285			
Phe	His	Ser	Met	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu
	290					295					300				
Arg	Asn	Lys	Asp	Val	Lys	Glu	Thr	Val	Arg	Lys	Leu	Ile	Tyr	Leu	Lys
305					310					315					320
Cys	Ile	Phe	His	Ser	Ile										
				325											

<210> 1796  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 1796

Met	Gln	Phe	Ile	Lys	Gln	Arg	Arg	Met	Glu	Val	Gly	Asn	Cys	Ser	Ala
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Thr	Glu	Phe	Leu	Leu	Leu	Gly	Ile	Thr	Asn	Asn	Pro	Val	Ile	Lys	Val
			20					25					30		
Ile	Leu	Phe	Thr	Thr	Phe	Leu	Ile	Val	Tyr	Leu	Ile	Ile	Leu	Ile	Glu
		35				40						45			
Asn	Leu	Gly	Met	Ile	Ile	Leu	Ile	Arg	Met	Asn	Ser	Gln	Leu	His	Thr
	50					55				60					
Pro	Met	Tyr	Phe	Phe	Leu	Ser	His	Leu	Ser	Phe	Ser	Asp	Ile	Cys	Tyr
65					70					75					80
Ser	Thr	Ala	Val	Gly	Pro	Lys	Met	Leu	Val	Gly	Leu	Ile	Phe	Lys	Asn
				85					90					95	
Asn	Ser	Ile	Pro	Phe	Ile	Asp	Cys	Ala	Val	Gln	Phe	Phe	Ile	Phe	Cys
			100					105					110		
Ile	Phe	Thr	Asp	Ala	Glu	Cys	Val	Leu	Leu	Ala	Val	Met	Ala	Phe	Asp
		115					120					125			
Arg	Tyr	Lys	Ala	Ile	Ser	Asn	Pro	Leu	Met	Tyr	Ala	Val	Asp	Met	Ser
	130					135					140				
Arg	Val	Val	Cys	Tyr	Gln	Leu	Leu	Ala	Val	Val	Tyr	Leu	Val	Gly	Met
145					150					155					160
Val	Asp	Ala	Leu	Thr	His	Thr	Thr	Leu	Thr	Phe	His	Leu	Cys	Phe	Cys
				165					170					175	
Gln	Ser	Lys	Glu	Ile	Asn	His	Phe	Phe	Cys	Asp	Val	Pro	Pro	Leu	Leu





<210> 1799  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1799  
 Met Asp Lys Glu Asn Cys Ser Ser Leu Pro Glu Leu Leu Leu Leu Glu  
 1 5 10 15  
 Ile Thr Asn Asn Pro Asp Met Lys Val Leu Ile Leu Thr Val Phe Leu  
 20 25 30  
 Ala Ile Asn Leu Ile Val Leu Ile Ile Asn Ile Gly Met Ile Ile Phe  
 35 40 45  
 Ile Lys Met Asn Pro Gln Leu Gln Thr Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 His Leu Phe Phe Ser Asp Leu Ser Tyr Ser Ser Ala Ile Gly Ser Lys  
 65 70 75 80  
 Met Leu Ile Asp Ile Phe Ser Lys Tyr Lys Thr Ile Pro Leu Leu Phe  
 85 90 95  
 Val Pro Phe Asp Ser Phe Phe Val Cys Ile Phe Ile Asp Val Glu Cys  
 100 105 110  
 Val Leu Pro Ala Val Met Ala Phe Asp Gln Tyr Lys Ala Ile Ser His  
 115 120 125  
 Pro Val Ile Tyr Ala Ile Asp Met Ser Asn Arg Val Cys Tyr Gln Phe  
 130 135 140  
 Leu Ala Gly Val Tyr Leu Val Gly Met Thr Asp Ala Leu Ile His Arg  
 145 150 155 160  
 Thr Leu Thr Phe Cys Leu Cys Phe Cys Glu Ser His Glu Ile Asn His  
 165 170 175  
 Phe Phe Cys Asp Ile Pro Pro Ile Leu Leu Leu Ser Cys Leu Asn Thr  
 180 185 190  
 Gln Phe Asn Glu Leu Met Ile Phe Thr Ile Phe Gly Phe Ile Gln Leu  
 195 200 205  
 Ser Thr Ile Ser Glu Val Leu Val Ser Tyr Cys Ser Ile Ile Leu Ser  
 210 215 220  
 Val Leu Lys Ile His Ser Ala Lys Gly Arg Phe Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Thr Leu His Leu Thr Ala Val Ala Ile Phe Gln Gly Thr Leu Leu  
 245 250 255  
 Phe Thr Tyr Phe Gln Pro Ser Thr Ser Tyr Ser Leu Asp Gln Asp Lys  
 260 265 270  
 Met Thr Ser Leu Phe Tyr Thr Leu Met Ile Pro Met Leu Asn Pro Leu  
 275 280 285  
 Ile Tyr Ser Leu Arg Tyr Lys Asp Val Lys Glu Thr Leu Gln Asn Leu  
 290 295 300  
 Glu Asn Lys Arg Trp Cys Lys  
 305 310

<210> 1800  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1800  
 Met Ile Gln Asn Ile Ser Glu Leu Ser Glu Phe Ile Leu Val Gly Leu  
 1 5 10 15

Thr	Asp	Ala	Pro	Phe	Leu	Gln	Ile	Pro	Leu	Phe	Ile	Ile	Phe	Thr	Leu
		20						25					30		
Ile	Tyr	Leu	Thr	Thr	Leu	Phe	Gly	Asn	Leu	Gly	Met	Ile	Leu	Leu	Ile
	35						40					45			
Leu	Leu	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn
	50					55					60				
Leu	Ser	Leu	Val	Asp	Cys	Val	Tyr	Ala	Ser	Ala	Val	Thr	Pro	Lys	Val
65					70					75					80
Met	Glu	Gly	Phe	Leu	Thr	Gly	Asn	Lys	Ile	Ile	Ser	Tyr	Asn	Ala	Cys
				85					90					95	
Ala	Ala	Gln	Met	Phe	Phe	Phe	Ala	Ala	Phe	Ala	Thr	Val	Glu	Ser	Phe
			100					105					110		
Met	Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	His	Ala	Ala	Val	Cys	Lys	Pro
	115						120					125			
Leu	His	Tyr	Ser	Thr	Thr	Met	Thr	Thr	Thr	Ile	Cys	Val	Leu	Leu	Leu
	130					135					140				
Ala	Gly	Ser	Tyr	Val	Ser	Gly	Leu	Leu	Gln	Ser	Ser	Ile	His	Val	Ser
145					150					155					160
Phe	Thr	Phe	Gln	Leu	Ser	Phe	Cys	His	Ser	Asn	Val	Val	Asn	His	Phe
			165						170					175	
Phe	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Ala	Leu	Ser	Cys	Ser	Ser	Ile	His
		180						185					190		
Thr	Asn	Glu	Ile	Ile	Leu	Phe	Met	Leu	Ala	Ala	Phe	Asn	Val	Ala	Phe
	195						200					205			
Thr	Leu	Leu	Val	Ile	Leu	Ser	Ser	Tyr	Leu	Leu	Ile	Phe	Val	Ala	Ile
	210					215					220				
Leu	Arg	Met	Arg	Ser	Ala	Glu	Ser	Arg	Lys	Lys	Ala	Ile	Ser	Thr	Cys
225					230					235					240
Ala	Ser	His	Leu	Thr	Thr	Val	Ser	Ile	Phe	Tyr	Gly	Thr	Ile	Ile	Phe
			245						250					255	
Met	Tyr	Leu	Gln	Pro	Ser	Ser	Asn	His	Ser	Met	Asp	Thr	Asp	Lys	Met
		260						265					270		
Ala	Ser	Val	Phe	Tyr	Thr	Met	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Val
		275				280						285			
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Asn	Ala	Phe	Lys	Lys	Val	Ala
	290					295					300				
Gly	Lys	Ala	Val	Leu	Ser	Leu	Gly	Leu	Val	Asn					
305					310					315					

<210> 1801  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1801

Met	His	Asn	Ile	Ser	Glu	Val	Thr	Glu	Phe	Ile	Leu	Val	Gly	Leu	Thr
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Asp	Ala	Pro	Gly	Leu	Gln	Val	Pro	Leu	Phe	Ile	Ile	Phe	Thr	Phe	Ile
		20						25					30		
Tyr	Leu	Thr	Thr	Leu	Phe	Gly	Asn	Leu	Gly	Met	Ile	Val	Leu	Ile	Leu
	35					40						45			
Leu	Asp	Ser	Ser	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn	Leu
	50				55						60				
Ser	Leu	Val	Asp	Cys	Val	Tyr	Ala	Ser	Ala	Val	Thr	Pro	Lys	Val	Ile
65					70					75					80
Glu	Gly	Phe	Leu	Thr	Glu	Lys	Lys	Ile	Ile	Ser	Tyr	Asn	Ala	Cys	Ala

				85					90				95				
Thr	Gln	Met	Phe	Phe	Leu	Ile	Gly	Phe	Ala	Ile	Ile	Glu	Gly	Phe	Leu		
			100					105					110				
Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	His	Ala	Ala	Val	Cys	Lys	Pro	Leu		
		115					120					125					
Tyr	Tyr	Ser	Thr	Ser	Met	Thr	Thr	Thr	Ile	Cys	Thr	Leu	Leu	Ile	Val		
	130					135					140						
Gly	Ser	Tyr	Ile	Ser	Gly	Leu	Leu	Gln	Ser	Ser	Ile	His	Val	Ala	Phe		
145					150					155					160		
Thr	Phe	His	Leu	Ser	Phe	Cys	His	Ser	Asn	Val	Val	Asn	His	Phe	Phe		
				165					170						175		
Cys	Asp	Ile	Pro	Pro	Leu	Leu	Ala	Leu	Ser	Cys	Ser	Ser	Val	Tyr	Ile		
			180					185					190				
Asn	Glu	Ile	Val	Leu	Phe	Ile	Leu	Ala	Ala	Leu	Asn	Ile	Ala	Leu	Thr		
	195						200					205					
Ile	Leu	Val	Ile	Val	Asn	Ser	Tyr	Val	Leu	Ile	Phe	Val	Ala	Ile	Leu		
	210				215						220						
Arg	Met	Arg	Ser	Thr	Asp	Gly	Gln	Lys	Lys	Ala	Ile	Ser	Thr	Cys	Ala		
225					230					235					240		
Ser	His	Leu	Thr	Thr	Val	Ser	Ile	Phe	Tyr	Gly	Thr	Ile	Ile	Phe	Met		
			245						250						255		
Tyr	Leu	Gln	Pro	Ser	Ser	Thr	His	Ser	Met	Asp	Thr	Asp	Lys	Val	Ala		
		260						265					270				
Ser	Val	Phe	Tyr	Thr	Met	Ile	Ile	Pro	Met	Leu	Asn	Pro	Leu	Val	Tyr		
	275					280					285						
Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Asn	Ala	Phe	Lys	Lys	Val	Thr	Arg		
	290					295					300						
Lys	Val	Leu	Phe	Ser	Leu	Gly	Leu	Val									
305					310												

<210> 1802  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1802

Met	Ala	Asp	Asn	Gly	Thr	Arg	Leu	Thr	Glu	Phe	Ile	Leu	Met	Gly	Phe		
1			5						10					15			
Gln	Leu	Gln	Ala	Glu	Leu	Gln	Leu	Gly	Leu	Phe	Phe	Thr	Phe	Leu	Thr		
		20						25					30				
Phe	Tyr	Leu	Ile	Thr	Ile	Ala	Gly	Asn	Leu	Gly	Met	Ile	Met	Leu	Ile		
	35					40					45						
Gln	Ser	Asp	Pro	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His		
	50				55					60							
Leu	Ser	Phe	Leu	Asp	Ile	Cys	Tyr	Ser	Ser	Val	Ile	Val	Pro	Gln	Leu		
65				70					75					80			
Leu	Glu	Ile	Leu	Gly	Asn	Asn	Lys	Met	Val	Ile	Thr	Tyr	Glu	His	Cys		
			85					90					95				
Ala	Thr	Gln	Phe	Phe	Phe	Phe	Thr	Phe	Tyr	Ala	Ser	Thr	Glu	Cys	Phe		
		100					105						110				
Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys	Asn	Pro		
	115					120						125					
Leu	Leu	Tyr	Ala	Met	Ala	Met	Thr	Pro	Gln	Thr	Arg	Leu	Gly	Leu	Val		
	130				135					140							
Ala	Ala	Ala	Tyr	Ser	Gly	Ala	Met	Val	Asn	Thr	Val	Val	Arg	Thr	Gly		
145					150				155						160		



Cys	Thr	Phe	Ser	Ile	Ser	Phe	Cys	Lys	Ser	Asn	Gln	Val	Asp	Phe	Leu
				165					170					175	
Phe	Cys	Asp	Leu	Pro	Pro	Leu	Met	Lys	Leu	Ala	Cys	Ser	Glu	Thr	Lys
			180					185					190		
Leu	Gln	Glu	Gln	Val	Ile	Phe	Leu	Phe	Ala	Phe	Leu	Val	Ile	Ile	Thr
		195					200					205			
Ser	Val	Ser	Val	Ile	Leu	Val	Ser	Tyr	Leu	Phe	Ile	Ile	Trp	Ala	Ile
	210					215					220				
Leu	Lys	Ile	Arg	Thr	Ala	Gly	Ala	Lys	Ala	Lys	Thr	Phe	Ser	Thr	Cys
225					230					235					240
Ala	Ser	His	Met	Ile	Ala	Val	Ala	Leu	Phe	Phe	Gly	Thr	Ile	Ile	Phe
				245					250					255	
Met	Tyr	Leu	Lys	Gly	Asn	Met	Gly	Lys	Ser	Leu	Trp	Glu	Asp	Lys	Ile
			260					265					270		
Val	Ser	Val	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Met	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Glu	Ala	Leu	Lys	Lys	Ala	Phe
	290				295						300				
Lys	Arg	Ile	Lys	Ser	Ser	Gln	Glu	Ser	Lys	Thr					
305					310					315					

<210> 1803  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1803

Met	Ala	Asp	Asn	Gly	Thr	Arg	Leu	Thr	Glu	Phe	Ile	Leu	Ile	Gly	Phe
1				5					10					15	
Gln	Leu	Gln	Ala	Glu	Leu	Gln	Leu	Cys	Leu	Phe	Phe	Ile	Phe	Leu	Ala
			20					25					30		
Phe	Tyr	Leu	Ile	Thr	Ile	Val	Gly	Asn	Leu	Gly	Met	Ile	Met	Leu	Ile
		35					40					45			
Gln	Ser	Asp	Pro	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His
	50					55					60				
Leu	Ser	Phe	Leu	Asp	Val	Cys	Tyr	Ser	Ser	Val	Ile	Val	Pro	Gln	Leu
65					70					75					80
Leu	Glu	Thr	Leu	Gly	Ser	Asn	Lys	Met	Val	Ile	Thr	Tyr	Glu	Arg	Cys
				85					90					95	
Ala	Thr	Gln	Phe	Phe	Phe	Thr	Leu	Tyr	Ala	Ser	Thr	Glu	Cys	Phe	
			100					105					110		
Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys	Asn	Pro
		115					120					125			
Leu	Leu	Tyr	Ala	Met	Ala	Met	Thr	Pro	Gln	Thr	Arg	Leu	Gly	Leu	Val
	130					135					140				
Ala	Ala	Ala	Tyr	Ser	Gly	Ala	Met	Val	Asn	Thr	Val	Val	Arg	Thr	Gly
145					150					155					160
Cys	Thr	Phe	Ser	Ile	Ser	Phe	Cys	Lys	Ser	Asn	Gln	Val	Asp	Phe	Phe
				165					170					175	
Phe	Cys	Asp	Leu	Pro	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Glu	Thr	Lys
			180					185					190		
Leu	Arg	Glu	Gln	Val	Ile	Phe	Leu	Phe	Ala	Phe	Leu	Val	Ile	Thr	Thr
		195					200					205			
Ser	Val	Ser	Val	Ile	Leu	Val	Ser	Tyr	Leu	Phe	Ile	Ile	Trp	Ala	Ile
	210					215					220				
Leu	Lys	Ile	Arg	Thr	Ala	Gly	Ala	Lys	Ala	Lys	Thr	Phe	Ser	Thr	Cys

225		230		235		240									
Ala	Ser	His	Met	Ile	Ala	Val	Ala	Leu	Phe	Phe	Gly	Thr	Leu	Ile	Phe
				245					250					255	
Met	Tyr	Leu	Lys	Gly	Asn	Met	Gly	Lys	Ser	Leu	Trp	Gln	Asp	Lys	Ile
			260					265					270		
Val	Ser	Val	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Met	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Glu	Ala	Leu	Lys	Lys	Ala	Phe
	290					295					300				
Lys	Arg	Ile	Lys	Ala	Ser	Gln	Glu	Ser	Lys	Thr					
305					310					315					

<210> 1804  
 <211> 321  
 <212> PRT  
 <213> Mus musculus

<400> 1804

Met	Thr	Val	Lys	Asn	Ile	Thr	Thr	Met	Ser	Gly	Phe	Leu	Leu	Met	Gly
1				5					10					15	
Phe	Ser	Asp	Asn	Arg	Glu	Leu	Gln	Ile	Leu	Tyr	Ala	Leu	Leu	Phe	Leu
			20					25					30		
Leu	Thr	Tyr	Leu	Leu	Gly	Ser	Ala	Gly	Asn	Phe	Ile	Ile	Ile	Thr	Ile
		35					40					45			
Thr	Thr	Leu	Asp	Pro	Gln	Leu	Gln	Ser	Pro	Met	Tyr	Tyr	Phe	Leu	Lys
	50					55					60				
His	Leu	Ser	Ile	Leu	Asp	Leu	Ser	Ser	Leu	Ser	Val	Thr	Val	Pro	Gln
65					70					75					80
Tyr	Val	Asp	Ser	Ser	Leu	Ala	Gly	Ser	Gly	Tyr	Ile	Ser	Tyr	Gly	Gln
			85						90					95	
Cys	Met	Leu	Gln	Ile	Phe	Phe	Phe	Ala	Ala	Phe	Ala	Trp	Gly	Glu	Val
			100					105					110		
Ala	Ile	Leu	Thr	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Leu
		115					120					125			
Pro	Leu	His	Tyr	Glu	Val	Ile	Met	Ser	Pro	Arg	Lys	Cys	Thr	Trp	Ala
	130					135					140				
Val	Thr	Ser	Val	Trp	Leu	Ser	Ser	Val	Ile	Pro	Gly	Thr	Leu	Tyr	Ile
145					150					155					160
Ala	Ser	Ile	Phe	Ser	Ile	Arg	Phe	Cys	Arg	Ala	Lys	Ile	Ile	His	Gln
			165						170					175	
Leu	Phe	Cys	Asp	Val	Pro	Gln	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asn	Asp
			180					185					190		
His	Leu	Val	Val	Ile	Gly	Met	Val	Ser	Phe	Met	Thr	Ala	Val	Ala	Phe
		195					200					205			
Ala	Cys	Phe	Val	Gly	Ile	Val	Ile	Ser	Tyr	Val	His	Ile	Phe	Ser	Thr
	210					215				220					
Val	Leu	Arg	Met	Pro	Ser	Ala	Glu	Ser	Arg	Ser	Lys	Val	Phe	Ser	Thr
225					230					235					240
Cys	Leu	Pro	His	Leu	Phe	Val	Val	Ser	Leu	Phe	Leu	Ser	Thr	Gly	Ser
			245						250					255	
Cys	Ala	Tyr	Leu	Asn	Thr	Ser	Ser	Asp	Ser	Pro	Thr	Ala	Leu	Glu	Phe
		260					265						270		
Leu	Phe	Ser	Ile	Phe	Tyr	Thr	Val	Leu	Pro	Pro	Thr	Leu	Asn	Pro	Val
	275						280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Glu	Thr	Ile	Lys	Ser	Val	Val	Arg	Lys	Leu
	290					295					300				

Leu Leu Ser Ser Lys Phe Thr Val Arg Ile Ile Cys Pro Val Ala Thr  
 305 310 315 320  
 Asp

<210> 1805  
 <211> 330  
 <212> PRT  
 <213> Mus musculus

<400> 1805  
 Met Ile Ser Tyr Ser Phe Phe Gln Glu Met Ser Val Asn Cys Ser Leu  
 1 5 10 15  
 Trp Gln Glu Asn Lys Leu Ser Val Lys His Phe Ala Phe Ala Lys Phe  
 20 25 30  
 Ser Glu Val Pro Glu Glu Cys Phe Leu Leu Phe Thr Leu Ile Leu Leu  
 35 40 45  
 Met Phe Leu Val Ser Leu Thr Gly Asn Ala Leu Ile Thr Leu Ala Ile  
 50 55 60  
 Cys Thr Ser Pro Ala Leu His Thr Pro Met Tyr Phe Phe Leu Ala Asn  
 65 70 75 80  
 Leu Ser Leu Leu Glu Ile Gly Tyr Thr Cys Ser Val Ile Pro Lys Met  
 85 90 95  
 Leu Lys Asn Leu Val Thr Glu Ala Arg Gly Ile Ser Arg Glu Gly Cys  
 100 105 110  
 Ala Thr Gln Met Phe Phe Phe Ile Phe Phe Gly Ile Thr Glu Cys Cys  
 115 120 125  
 Leu Leu Ala Ala Met Ala Phe Asp Arg Tyr Met Ala Ile Cys Ser Pro  
 130 135 140  
 Leu His Tyr Ala Thr Arg Met Ser Arg Glu Val Cys Ala His Leu Ala  
 145 150 155 160  
 Ile Val Ser Trp Gly Met Gly Cys Ile Val Gly Leu Gly Gln Thr Asn  
 165 170 175  
 Phe Ile Phe Ser Leu Asn Phe Cys Gly Pro Cys Glu Ile Asp His Phe  
 180 185 190  
 Phe Cys Asp Leu Pro Pro Val Leu Ala Leu Ala Cys Gly Asp Thr Ser  
 195 200 205  
 Gln Asn Glu Ala Ala Ile Phe Val Thr Val Val Leu Cys Ile Ser Ser  
 210 215 220  
 Pro Phe Leu Leu Ile Ile Tyr Ser Tyr Val Arg Ile Leu Phe Ala Val  
 225 230 235 240  
 Leu Val Met Pro Ser Pro Glu Gly Arg His Lys Ala Leu Ser Thr Cys  
 245 250 255  
 Ser Ser His Leu Leu Val Val Thr Leu Phe Tyr Gly Ser Ala Ser Ile  
 260 265 270  
 Thr Tyr Leu Arg Pro Lys Ser Ser His Ser Pro Gly Ile Asp Lys Leu  
 275 280 285  
 Leu Ala Leu Phe Tyr Thr Ala Val Thr Ser Met Leu Asn Pro Ile Ile  
 290 295 300  
 Tyr Ser Leu Arg Asn Lys Glu Val Lys Ala Ala Leu Arg Arg Thr Leu  
 305 310 315 320  
 Ser Leu Lys Lys Pro Leu Ala Ile Asn Arg  
 325 330

<210> 1806

<211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1806

```

Met Ile Asn Ser Ser Val Ser Ser Asp Phe Ile Leu Val Gly Phe Ser
 1           5           10           15
Asp Gln Pro Gln Leu Glu Arg Arg Leu Phe Ile Val Val Leu Ile Ser
           20           25           30
Tyr Leu Leu Thr Leu Val Gly Asn Thr Ile Ile Ile Leu Ile Ser Ser
           35           40           45
Ile Asp Ser Lys Leu Lys Thr Pro Met Tyr Phe Phe Leu Thr His Leu
           50           55           60
Ser Phe Val Asp Ile Cys Phe Thr Thr Ser Ile Val Pro Gln Leu Leu
65           70           75           80
Trp Asn Leu Lys Gly Pro Ala Lys Thr Ile Thr Ala Val Gly Cys Ala
           85           90           95
Val Gln Leu Tyr Val Ser Leu Thr Leu Gly Ser Thr Glu Cys Ile Leu
           100          105          110
Leu Ala Val Met Ala Phe Asp Arg Tyr Ala Ala Val Cys Lys Pro Leu
           115          120          125
His Tyr Val Ala Val Met Asn Pro Gln Leu Cys Arg Ala Leu Ala Gly
           130          135          140
Ile Ser Trp Leu Ser Gly Ile Gly Asn Ala Leu Ile Gln Gly Thr Ile
145           150          155          160
Thr Leu Trp Leu Pro Arg Cys Gly His Leu Trp Leu His His Phe Phe
           165          170          175
Cys Glu Val Pro Ser Met Ile Lys Leu Ala Cys Val Asp Ile His Ala
           180          185          190
Asn Glu Val Gln Leu Phe Val Ala Ser Leu Val Leu Leu Leu Leu Pro
           195          200          205
Leu Ala Leu Ile Leu Thr Ser Tyr Gly His Ile Ala Lys Ala Val Ile
           210          215          220
Arg Ile Lys Ser Ser Gln Ala Trp Arg Arg Ala Leu Gly Thr Cys Gly
225           230          235          240
Ser His Leu Met Val Val Ser Leu Phe Tyr Gly Ser Ile Thr Ala Ile
           245          250          255
Tyr Ile Gln Pro Asn Ser Ser Tyr Ala His Thr His Gly Lys Phe Ile
           260          265          270
Ser Leu Phe Tyr Thr Val Met Thr Pro Thr Leu Asn Pro Leu Ile Tyr
           275          280          285
Thr Leu Arg Asn Lys Glu Val Lys Gly Ala Leu Gly Arg Leu Phe Asn
           290          295          300
Arg Ala Ser Gly Val
305

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<210> 1807  
 <211> 321  
 <212> PRT  
 <213> Mus musculus

<400> 1807

```

Met Ser Ile Asn Cys Ser Leu Trp Gln Glu Asn Ser Leu Ser Val Lys
 1           5           10           15
Arg Phe Ala Phe Ser Lys Phe Ser Glu Val Pro Gly Glu Cys Phe Leu
           20           25           30

```

Leu	Phe	Thr	Leu	Ile	Leu	Leu	Met	Phe	Leu	Val	Ser	Leu	Thr	Gly	Asn
	35						40					45			
Glu	Leu	Ile	Ala	Ile	Ala	Ile	Cys	Thr	Ser	Pro	Ala	Leu	His	Thr	Pro
	50					55					60				
Met	Tyr	Phe	Phe	Leu	Ala	Asn	Leu	Ser	Leu	Leu	Glu	Ile	Gly	Tyr	Thr
65				70					75						80
Cys	Ser	Val	Ile	Pro	Lys	Met	Leu	Gln	Ser	Leu	Val	Ser	Glu	Ala	Arg
			85					90					95		
Glu	Ile	Ser	Arg	Glu	Gly	Cys	Ala	Thr	Gln	Met	Phe	Phe	Phe	Thr	Phe
			100					105					110		
Phe	Gly	Ile	Thr	Glu	Cys	Cys	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg
	115						120					125			
Cys	Met	Ala	Ile	Cys	Ser	Pro	Leu	His	Tyr	Ala	Thr	Arg	Met	Ser	His
	130					135					140				
Gly	Val	Cys	Ala	His	Leu	Ala	Ile	Val	Ser	Trp	Gly	Met	Gly	Cys	Ile
145				150					155						160
Val	Gly	Leu	Gly	Gln	Thr	Asn	Phe	Ile	Phe	Ser	Leu	Asn	Phe	Cys	Gly
			165					170					175		
Pro	Cys	Glu	Ile	Asp	His	Phe	Phe	Cys	Asp	Leu	Pro	Pro	Val	Leu	Ala
		180					185					190			
Leu	Ala	Cys	Gly	Asp	Thr	Ser	Gln	Asn	Glu	Ala	Ala	Ile	Phe	Val	Ala
	195						200					205			
Ala	Ile	Leu	Cys	Ile	Ser	Ser	Pro	Phe	Leu	Leu	Ile	Ile	Tyr	Ser	Tyr
	210					215					220				
Val	Arg	Ile	Leu	Val	Ala	Val	Leu	Val	Met	Pro	Ser	Pro	Glu	Gly	Arg
225				230					235						240
His	Lys	Ala	Leu	Ser	Thr	Cys	Ser	Ser	His	Leu	Leu	Val	Val	Thr	Leu
			245					250					255		
Phe	Phe	Gly	Ser	Gly	Ser	Ile	Thr	Tyr	Leu	Arg	Pro	Lys	Ser	Ser	His
		260					265					270			
Leu	Pro	Gly	Met	Asp	Lys	Leu	Leu	Ala	Leu	Phe	Tyr	Thr	Ala	Val	Thr
	275					280					285				
Ser	Met	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys
	290				295					300					
Thr	Ala	Leu	Arg	Lys	Thr	Leu	Ser	Leu	Lys	Thr	Ser	Arg	Ala	Ile	Asn
305				310					315						320
Arg															

<210> 1808  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1808  
 Met Arg Met Asp Asn Lys Ser Thr Val Ser Glu Phe Ile Leu Leu Gly  
 1 5 10 15  
 Leu Pro Ile Arg Pro Glu Asn Gln Val Ile Tyr Ser Ser Leu Ile Leu  
 20 25 30  
 Thr Met Tyr Leu Thr Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Leu  
 35 40 45  
 Ile Arg Leu Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 His Leu Ala Leu Thr Asp Ile Ser Phe Ser Ser Val Thr Val Pro Lys  
 65 70 75 80  
 Met Leu Val Asn Met Leu Thr His Ser Gln Ser Ile Ser Tyr Asp Gly



Leu	Leu	Leu	Ala	Arg	Leu	Ser	Phe	Cys	Ala	Asp	Asn	Thr	Ile	Ser	His
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Ala	Ala	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Ile
			180					185					190		
Ser	Leu	Asn	Glu	Leu	Val	Ile	Phe	Thr	Val	Gly	Thr	Thr	Val	Ile	Thr
		195					200					205			
Leu	Pro	Leu	Ile	Cys	Ile	Leu	Ile	Ser	Tyr	Gly	His	Ile	Val	Ala	Thr
	210					215					220				
Ile	Leu	Lys	Val	Ser	Ser	Asn	Lys	Gly	Ile	Cys	Lys	Ala	Leu	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Tyr	Tyr	Gly	Thr	Ile	Ile
				245					250					255	
Gly	Val	Tyr	Phe	Ile	Pro	Ser	Ser	Phe	Thr	Ser	Thr	Asp	Lys	Gly	Ile
			260					265					270		
Val	Ala	Ser	Val	Met	Tyr	Thr	Val	Val	Thr	Pro	Leu	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Ile	Arg	Asn	Arg	Asp	Met	Lys	Glu	Ala	Leu	Lys	Lys	Leu
	290				295						300				
Phe	Asn	Arg	Ala	Ser	Ile	Ser	Thr								
305					310										

<210> 1810  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1810

Met	Arg	Leu	Lys	Asn	His	Ser	Ser	Val	Ser	Glu	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Phe	Pro	Ile	Arg	Pro	Glu	Gln	Gly	Gly	Ile	Phe	Phe	Ser	Leu	Phe	Leu
			20				25						30		
Ala	Met	Tyr	Leu	Ile	Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Leu
		35					40					45			
Ile	Arg	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
His	Leu	Ala	Phe	Thr	Asp	Ile	Ser	Phe	Ser	Ser	Val	Thr	Val	Pro	Lys
65					70					75					80
Met	Leu	Thr	Lys	Val	Gln	Asn	Gln	Pro	Ile	Pro	Ile	Thr	Tyr	Glu	Glu
			85					90						95	
Cys	Val	Ser	Gln	Thr	Tyr	Phe	Phe	Ile	Phe	Phe	Ala	Asp	Leu	Asp	Ser
			100					105					110		
Phe	Leu	Ile	Thr	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Met	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	His	Tyr	Ile	Thr	Ile	Met	Ser	Gln	Ser	Arg	Cys	Ala	Met	Leu
	130					135					140				
Val	Ala	Val	Ser	Trp	Val	Ile	Ala	Ser	Ala	Cys	Ala	Leu	Leu	His	Ser
145					150					155					160
Leu	Leu	Leu	Asp	Gln	Leu	Ser	Phe	Cys	Ala	Asp	His	Thr	Val	Pro	His
			165						170					175	
Phe	Phe	Cys	Asp	Leu	Gly	Ala	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Thr
			180				185						190		
Ser	Leu	Asn	Gln	Leu	Val	Ile	Phe	Thr	Ala	Gly	Leu	Ala	Ala	Ile	Met
		195					200					205			
Leu	Pro	Phe	Leu	Cys	Ile	Leu	Ile	Ser	Tyr	Gly	Arg	Ile	Gly	Phe	Thr
	210					215					220				
Ile	Leu	Gln	Val	Pro	Thr	Thr	Lys	Gly	Ile	Cys	Lys	Ala	Leu	Ser	Thr

225		230		235		240
Cys Gly Ser His	Leu Ser Val Val Ala	Leu Tyr Tyr Gly Ser	Ile Ile			
	245	250	255			
Gly Leu Tyr Phe	Leu Pro Pro Ser Asn	Ser Lys Ile Asn Asn	Asn Ile			
	260	265	270			
Val Ala Ser Val	Met Tyr Thr Val Val Thr	Pro Met Leu Asn	Pro Phe			
	275	280	285			
Ile Tyr Ser Leu	Arg Asn Lys Asp Met	Lys Gly Ala Leu	Lys Lys Leu			
	290	295	300			
Leu Ser Lys Lys	Thr Glu Phe Ser Lys					
305	310					

<210> 1811  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1811

Met Glu Gly Val	Asn Gln Thr Arg Phe	Val Ser Glu Phe	Ile Leu Leu
1	5	10	15
Gly Leu Ser Pro	Arg Pro Glu Asp Gln	Lys Pro Leu Phe	Ile Leu Phe
	20	25	30
Leu Thr Ile Tyr	Leu Val Thr Leu Thr	Gly Asn Leu Leu	Ile Ile Leu
	35	40	45
Ala Ile Arg Ser	Asp Pro His Leu His	Thr Pro Met Tyr	Phe Phe Leu
	50	55	60
Ser Phe Leu Ser	Leu Thr Asp Ile Cys	Phe Thr Thr Thr	Ile Val Pro
	65	70	75
Lys Met Leu Val	Asn Phe Leu Ser Glu	Lys Lys Thr Ile	Ser Tyr Ala
	85	90	95
Gly Cys Leu Thr	Gln Met Tyr Phe Leu	Tyr Ala Leu Gly	Asn Ser Asp
	100	105	110
Ser Cys Leu Leu	Ala Val Met Ala Phe	Asp Arg Tyr Val	Ala Ile Cys
	115	120	125
Asn Pro Phe His	Tyr Val Thr Ile Met	Asn His His Arg	Cys Ala Leu
	130	135	140
Leu Val Thr Phe	Ser Cys Ser Phe Pro	His Phe His Ser	Leu Leu His
	145	150	155
Thr Leu Leu Leu	Asn Leu Leu Thr Phe	Cys Asp Ser Asn	Val Ile His
	165	170	175
His Phe Leu Cys	Asp Leu Ser Pro Leu	Lys Leu Ser Cys	Ser Ser Ser
	180	185	190
Thr Phe Val Asn	Glu Ile Val Ile Val	Thr Glu Gly Ala	Leu Val Leu
	195	200	205
Val Thr Pro Phe	Leu Cys Ile Ala Phe	Ser Tyr Ile Arg	Ile Leu Val
	210	215	220
Thr Val Leu Lys	Ile Pro Ser Ala Ala	Gly Lys Arg Lys	Ala Phe Ser
	225	230	235
Thr Cys Gly Ser	His Phe Thr Val Val	Thr Leu Phe Tyr	Gly Ser Ile
	245	250	255
Phe Tyr Val Tyr	Leu Gln Pro Val Ser	Thr Tyr Thr Val	Lys Asp His
	260	265	270
Ile Ala Thr Ile	Val Tyr Thr Val Leu	Ser Ser Met Leu	Asn Pro Phe
	275	280	285
Ile Tyr Ser Leu	Arg Asn Lys Asp Leu	Lys Gln Gly Leu	Arg Lys Leu
	290	295	300



Ile Ser Arg Arg His Ile  
305 310

<210> 1812  
<211> 315  
<212> PRT  
<213> Mus musculus

<400> 1812  
Met Met Thr Arg Asn His Ser Ser Val Ser Glu Phe Leu Leu Leu Gly  
1 5 10 15  
Leu Ser Glu His Trp Glu Gln Glu Pro Leu Leu Phe Gly Ile Phe Leu  
20 25 30  
Val Ile Tyr Leu Val Thr Val Val Gly Asn Thr Leu Ile Ile Leu Ala  
35 40 45  
Ile Val Ser Asp Pro His Leu His Ser Pro Met Tyr Phe Phe Leu Ala  
50 55 60  
Asn Leu Ser Leu Thr Asp Met Cys Leu Ser Ser Thr Thr Val Pro Arg  
65 70 75 80  
Met Leu Val Asn Ile Gln Thr Gln Arg His Ser Ile Pro Tyr Ala Gly  
85 90 95  
Cys Leu Ser Gln Ile Tyr Phe Phe Leu Trp Phe Ile Gly Leu Asp Val  
100 105 110  
Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Leu Val Ala Ile Cys Tyr  
115 120 125  
Pro Leu His Tyr Thr Leu Val Met Ser Pro Arg Cys Cys Ile Leu Leu  
130 135 140  
Val Thr Thr Ser Leu Phe Leu Ala His Ser Tyr Ala Leu Thr His Ile  
145 150 155 160  
Ile Leu Leu Ser Gln Leu Ser Phe Cys Met Asp Asn Ile Ile Leu His  
165 170 175  
Phe Phe Cys Glu Leu Leu Pro Met Leu Lys Leu Ser Cys Ser Asn Thr  
180 185 190  
Tyr Ala Asn Gln Cys Val Leu Leu Tyr Trp Gly Gly Ala Leu Thr Val  
195 200 205  
Leu Ile Pro Leu Leu Ile Ile Val Ser Tyr Val Arg Ile Val Ala Thr  
210 215 220  
Ile Val Arg Val Pro Ser Ala Ser Gly Lys Trp Lys Thr Phe Ser Thr  
225 230 235 240  
Cys Gly Ser His Leu Ser Ala Val Cys Leu Phe Tyr Val Ser Ala Ile  
245 250 255  
Gly Val Tyr Phe Ile Pro Tyr Ala Ala Asp Ser Ala Ser Arg Asp Arg  
260 265 270  
Ile Ala Ser Val Met Tyr Ala Val Val Thr Pro Met Leu Asn Pro Phe  
275 280 285  
Ile Tyr Ser Leu Arg Asn Lys Asp Met Thr Ser Ala Leu Arg Arg Phe  
290 295 300  
Leu Asn Lys Ile Leu Leu Gln Pro Pro Gln Ser  
305 310 315

<210> 1813  
<211> 308  
<212> PRT  
<213> Mus musculus

<400> 1813

```
Met Asp Asn Ser Ser Trp Thr Ser Val Ser His Phe Val Leu Leu Gly
 1          5          10          15
Ile Ser Thr Asn Pro Val Glu Gln Ile Pro Leu Phe Leu Phe Leu
 20          25          30
Leu Met Tyr Ile Ile Asn Ile Ser Gly Asn Phe Phe Ile Val Thr Leu
 35          40          45
Ile Ile Ser Thr Ser His Leu His Thr Pro Met Tyr Ile Phe Leu Ser
 50          55          60
Asn Leu Ala Leu Ala Asp Ile Cys Phe Thr Ser Thr Thr Val Pro Lys
 65          70          75          80
Met Leu Gln Asn Ile Phe Ser Ser Thr Lys Val Ile Ser Tyr Val Gly
 85          90          95
Cys Leu Ala Gln Thr Tyr Phe Phe Ile Cys Phe Ala Ala Met Glu Asn
100          105          110
Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Ile Ala Ile Cys His
115          120          125
Pro Leu Arg Tyr Ser Ser Ile Leu Thr Gly Met Leu Cys Ala Gln Met
130          135          140
Val Ala Leu Cys His Val Leu Ser His Leu His Ala Leu Leu His Thr
145          150          155          160
Phe Leu Met Gly Arg Leu Ile Phe Cys Ala Asp Asn Arg Ile Pro His
165          170          175
Phe Phe Cys Asp Leu Tyr Pro Leu Met Lys Ile Ser Cys Ser Ser Thr
180          185          190
Gln Leu Asn Thr Leu Met Ile His Thr Glu Gly Val Ile Val Ile Asn
195          200          205
Gly Ala Leu Ala Phe Ile Ile Ala Ser Tyr Ala Phe Ile Ile Ser Ala
210          215          220
Val Leu Arg Ile Pro Ser Ala Asn Gly Lys Trp Arg Ser Phe Ser Thr
225          230          235          240
Cys Gly Ser His Leu Thr Val Val Ala Ile Phe Tyr Gly Thr Leu Thr
245          250          255
Trp Val Tyr Phe Arg Pro Leu Ser Ser Tyr Ser Val Val Lys Gly Arg
260          265          270
Ile Val Thr Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
275          280          285
Ile Tyr Ser Leu Arg Asn Gly Asp Val Lys Glu Ala Phe Arg Lys Trp
290          295          300
Val Arg Arg Val
305
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<210> 1814

<211> 317

<212> PRT

<213> Mus musculus

<400> 1814

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Met Ala Thr Lys Asn Lys Thr Glu Val Thr Glu Phe Val Leu Leu Gly
 1          5          10          15
Leu Ser Ser Arg Pro Glu Ile Gln Pro Val Ile Phe Gly Val Val Leu
 20          25          30
Ile Met Tyr Leu Met Ala Val Leu Gly Asn Thr Leu Leu Ile Leu Val
 35          40          45
Ala Cys Ser Asp Pro Arg Leu Gln Thr Pro Met Tyr Phe Leu Leu Ser
 50          55          60
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Gln	Leu	Ser	Leu	Ile	Asp	Ile	Ser	Leu	Thr	Thr	Ile	Thr	Ile	Pro	Gln
65					70					75				80	
Met	Leu	Val	His	Thr	Leu	Ser	Val	Asn	Arg	Ser	Ile	Ser	Tyr	Asn	Arg
				85					90					95	
Cys	Met	Thr	Gln	Leu	Phe	Phe	Phe	Met	Ala	Val	Gly	Ser	Met	Glu	Val
			100					105					110		
Tyr	Leu	Leu	Gly	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asp
		115					120					125			
Pro	Leu	Arg	Tyr	Ser	Ala	Ile	Val	Ser	Tyr	Ser	Leu	Cys	Leu	Gln	Ile
	130					135					140				
Thr	Leu	Thr	Ser	Trp	Met	Val	Val	Ser	Leu	Asn	Ser	Leu	Leu	Tyr	Ser
145					150					155					160
Val	Leu	Val	Thr	Arg	Leu	Thr	Phe	Cys	Gly	Asn	Lys	Val	Thr	His	Phe
				165					170					175	
Phe	Cys	Asp	Ile	Thr	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Thr	Arg	Pro	Val
			180					185					190		
Leu	Asn	Glu	Met	Leu	Ile	Phe	Thr	Glu	Gly	Val	Ala	Val	Val	Gly	Ser
	195						200					205			
Pro	Phe	Phe	Phe	Ile	Trp	Gly	Ser	Tyr	Val	Arg	Ile	Gly	Ile	Ala	Met
	210					215					220				
Ala	His	Met	His	Ser	Phe	Ala	Ala	Leu	Lys	Lys	Ala	Leu	Ser	Thr	Cys
225					230					235					240
Ser	Ser	His	Ile	Leu	Val	Val	Leu	Leu	Leu	Phe	Gly	Thr	Leu	Ala	Arg
				245					250					255	
Met	Tyr	Leu	Lys	Pro	Ser	Ser	Ser	Tyr	Asp	Leu	Gly	Gln	Asp	Arg	Gln
			260					265					270		
Val	Ala	Ile	Phe	Tyr	Thr	Leu	Ile	Ser	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Gln	Asp	Val	Lys	Gly	Ala	Leu	Trp	Arg	Leu	Phe
	290					295					300				
Arg	Lys	Leu	His	Thr	Ser	Asp	Trp	Leu	Ser	Asp	Lys	Glu			
305					310					315					

<210> 1815  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1815

Met	Ile	Thr	Glu	Asn	Trp	Thr	Leu	Ala	Gln	Asp	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Phe	Pro	Gly	Ser	Gln	Val	Leu	Gln	Phe	Ser	Leu	Phe	Leu	Phe	Phe	Leu
			20					25					30		
Val	Met	Tyr	Leu	Leu	Thr	Ile	Gly	Gly	Asn	Met	Ala	Ile	Leu	Leu	Leu
	35						40					45			
Val	Ser	Thr	Ser	His	Gln	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Leu	Glu	Ile	Trp	Tyr	Thr	Thr	Ala	Ala	Val	Pro	Lys
65					70					75					80
Ala	Leu	Ala	Ile	Leu	Val	Gly	Lys	Ser	Gln	Ser	Ile	Ser	Phe	Leu	Gly
			85						90					95	
Cys	Leu	Phe	Gln	Met	Tyr	Leu	Val	Phe	Ser	Leu	Gly	Cys	Thr	Glu	Tyr
			100					105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Phe
		115					120					125			
Pro	Leu	His	Tyr	Gln	Thr	Ile	Met	Asn	Ser	Leu	Leu	Ser	Ala	Gln	Leu

130	135	140
Ala Leu Ser Ser Trp Ile	Cys Gly Phe Leu	Ala Ile Ser Val Pro Ala
145	150	155
Ala Leu Ile Ser Thr	Leu Ser Phe Cys Gly Thr	His Ala Ile Asn His
	165	170
Phe Phe Cys Asp Ile	Ala Pro Trp Ile	Ala Leu Ala Cys Thr Ser Thr
	180	185
Gln Gly Val Glu Thr	Val Ala Phe Val	Ile Ala Phe Val Val Ile Leu
	195	200
Ser Ser Cys Leu Ile Thr	Leu Ile Ser Tyr	Ala Tyr Ile Ile Arg Thr
	210	215
Ile Leu Arg Ile Pro	Ser Thr Ser Gly	Arg Arg Lys Ala Phe Ser Thr
225	230	235
Cys Ser Ser His Leu	Thr Val Val Leu	Ile Trp Tyr Gly Ser Thr Ile
	245	250
Phe Leu His Val Arg	Thr Ser Ile Lys	Asp Asp Leu Gln Leu Thr Lys
	260	265
Ala Val His Val Leu	Asn Thr Val Val	Thr Pro Ala Leu Asn Pro Phe
	275	280
Ile Tyr Thr Leu Arg	Asn Lys Glu Val	Arg Glu Ile Leu Gly Lys Lys
	290	295
Trp Lys Arg Lys		300
305		

<210> 1816  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1816

Met Met Asn Ser Thr	Met Val Thr Glu Phe	Leu Leu Glu Val Phe Ala
1	5	10
Glu Thr Trp Glu Leu	Arg Ile Leu Leu Thr	Val Leu Phe Leu Leu Met
	20	25
Tyr Leu Gly Ser Leu	Phe Gly Asn Leu Ile	Ile Ile Ile Val Thr Thr
	35	40
Val Asp Gln Thr Leu	Asn Thr Pro Met Tyr	Phe Phe Leu Arg Asn Leu
	50	55
Ser Ile Leu Asp Met	Gly Phe Val Ser Val	Thr Val Pro Asn Ala Cys
65	70	75
Ile Asn Ser Leu Thr	Asp His Arg Asn Ile	Ser Val Ala Gly Cys Ala
	85	90
Ala Gln Ile Phe Leu	Val Phe Phe Cys Ser	Cys Val Glu Ile Gln Phe
	100	105
Leu Thr Thr Met Ala	Gln Asp Arg Tyr	Val Ala Ile Cys Lys Pro Leu
	115	120
Met Tyr Pro Val Ile	Met Thr His Gln Phe	Cys Val Gln Met Thr Leu
	130	135
Ala Ser Leu Leu Thr	Ser Leu Ile Leu Ala	Ser Val His Thr Ser Lys
145	150	155
Thr Phe Gln Leu Ser	Phe Cys His Ser	Asn Ile Val Pro Gln Phe Phe
	165	170
Cys Asp Ile Pro Ser	Leu Leu Arg Leu	Ser Cys Ser Asp Thr Phe Asn
	180	185
Asn Lys Leu Leu Leu	Leu Ser Ala Ile	Gly Leu Ser Gly Ser Cys
	195	200
		205

Phe	Thr	Phe	Ile	Ala	Val	Ser	Tyr	Val	Arg	Ile	Leu	Ser	Thr	Val	Leu
210						215					220				
Lys	Val	Pro	Val	Lys	Gly	Glu	Arg	Gly	Lys	Ala	Phe	Ser	Thr	Cys	Val
225					230					235					240
Pro	His	Ile	Ile	Val	Val	Ser	Val	Phe	Leu	Ser	Ser	Gly	Ala	Tyr	Val
				245					250					255	
Tyr	Leu	Lys	Pro	Pro	Ala	Ile	Pro	Glu	Ile	Ile	Glu	Asp	Met	Thr	Leu
			260					265					270		
Ser	Val	Phe	Tyr	Thr	Ile	Val	Pro	Pro	Phe	Leu	Asn	Pro	Ile	Ile	Tyr
		275					280					285			
Ser	Leu	Arg	Asn	Lys	Gln	Ile	Lys	Glu	Ala	Val	Lys	Lys	Val	Ile	Phe
290						295					300				
Arg	Phe	Leu	Ser												
305															

<210> 1817  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 1817

Met	Asp	Val	Lys	Asn	Gln	Thr	Ala	Val	Thr	Glu	Phe	Ile	Phe	Leu	Gly
1				5					10					15	
Phe	Pro	Gly	Ser	Ser	Ser	Leu	Gln	Leu	Pro	Leu	Phe	Met	Met	Phe	Leu
			20					25					30		
Thr	Val	Tyr	Leu	Leu	Ser	Leu	Met	Gly	Asn	Thr	Leu	Ile	Ile	Phe	Leu
		35				40						45			
Ile	Leu	Val	Asp	Ser	Thr	Leu	Gln	Thr	Pro	Met	Tyr	Ile	Phe	Leu	Gly
	50					55					60				
Asn	Leu	Ser	Phe	Leu	Glu	Ile	Trp	Tyr	Thr	Thr	Ala	Thr	Val	Pro	Lys
65				70					75						80
Leu	Leu	Ala	Thr	Cys	Val	Thr	Lys	Val	Val	Thr	Ile	Pro	Val	Ala	Gly
			85					90						95	
Cys	Ile	Thr	Gln	Tyr	Tyr	Phe	Phe	Phe	Ser	Leu	Gly	Ala	Thr	Glu	Cys
			100					105					110		
Ile	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	His	Val	Ala	Val	Cys	Arg
		115				120						125			
Pro	Leu	His	Tyr	Ser	Leu	Leu	Met	Ser	Val	His	Ile	Cys	Leu	Arg	Phe
	130				135						140				
Ser	Ala	Ala	Ser	Trp	Val	Gly	Gly	Phe	Leu	Ala	Pro	Leu	Leu	Pro	Thr
145				150					155						160
Ile	Leu	Ile	Ser	Gln	Leu	Asn	Phe	Cys	Gly	Pro	Gln	Lys	Ile	Asn	His
			165					170						175	
Phe	Phe	Cys	Asp	Ser	Asp	Pro	Ile	Phe	Lys	Leu	Ser	Cys	Ser	Asp	Thr
			180					185					190		
Phe	Leu	Val	Glu	Ala	Leu	Gly	Tyr	Thr	Cys	Ser	Ser	Val	Val	Ile	Leu
		195				200						205			
Ser	Ser	Phe	Leu	Leu	Thr	Met	Ser	Ser	Tyr	Gly	Asn	Ile	Val	Val	Thr
	210				215						220				
Ile	Ile	Arg	Leu	Ser	Ser	Arg	Glu	Ala	Arg	Lys	Lys	Thr	Phe	Ser	Thr
225				230					235						240
Cys	Ala	Ser	His	Leu	Thr	Val	Val	Thr	Ile	Tyr	Tyr	Gly	Thr	Ile	Ile
			245					250						255	
Phe	Ala	Tyr	Val	Arg	Pro	Pro	Ala	Lys	Tyr	Asn	Phe	Thr	Ile	Gly	Lys
		260					265						270		
Val	Val	Ser	Val	Phe	Tyr	Cys	Val	Ile	Thr	Pro	Leu	Val	Asn	Pro	Leu

	275		280		285
Ile	Tyr Thr Leu Arg Asn Lys	Asp Val Met Lys	Ala Phe Gln Lys Phe		
	290	295	300		
Leu	Ser Gln Lys Lys Phe	Leu Met Gly Lys Asn	Met His Gly Leu		
305		310	315		

<210> 1818  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1818

Met	Met	Asn	Ser	Thr	Met	Val	Thr	Glu	Phe	Leu	Leu	Glu	Val	Phe	Ala
1				5					10					15	
Glu	Thr	Trp	Glu	Leu	Arg	Val	Leu	Leu	Ser	Val	Leu	Phe	Leu	Leu	Val
			20					25					30		
Tyr	Leu	Gly	Ser	Leu	Phe	Gly	Asn	Leu	Thr	Ile	Ile	Ile	Val	Thr	Thr
		35					40						45		
Val	Asp	Gln	Thr	Leu	Asn	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Leu
	50					55					60				
Ser	Ile	Leu	Asp	Met	Cys	Tyr	Val	Ser	Ile	Thr	Val	Pro	Asn	Ala	Cys
65					70					75					80
Ile	Asn	Ser	Leu	Thr	Asp	His	Arg	Asn	Ile	Ser	Val	Thr	Gly	Cys	Ala
				85					90					95	
Ala	Gln	Ile	Phe	Leu	Phe	Phe	Phe	Cys	Ala	Cys	Val	Glu	Val	Gln	Phe
			100					105					110		
Leu	Thr	Ile	Met	Ala	Gln	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
Leu	Tyr	Pro	Met	Ile	Met	Asn	His	Gln	Phe	Cys	Val	Gln	Met	Thr	Leu
	130					135					140				
Ala	Ser	Leu	Leu	Thr	Ser	Leu	Ile	Leu	Ser	Gly	Met	Asn	Thr	Phe	Lys
145					150					155					160
Thr	Phe	Gln	Leu	Ser	Phe	Cys	His	Ser	Asn	Val	Val	Pro	Gln	Phe	Phe
				165					170					175	
Cys	Glu	Leu	Pro	Ala	Leu	Leu	Arg	Leu	Thr	Cys	Ser	Asp	Thr	Phe	Asn
		180						185					190		
Asn	Lys	Ile	Ile	Leu	Leu	Leu	Thr	Ala	Ile	Gly	Leu	Ser	Gly	Thr	Cys
	195						200					205			
Phe	Thr	Phe	Ile	Ala	Ile	Ser	Tyr	Val	Arg	Ile	Leu	Ser	Thr	Val	Leu
	210					215					220				
Lys	Val	Pro	Val	Lys	Gly	Arg	Gly	Lys	Ala	Phe	Ser	Thr	Cys	Val	
225					230				235					240	
Pro	His	Ile	Ile	Val	Ala	Tyr	Leu	Phe	Phe	Cys	Ser	Gly	Ala	Tyr	Ala
				245					250					255	
Tyr	Leu	Arg	Pro	Ser	Ala	Ile	Ser	Glu	Val	Val	Glu	Asp	Met	Thr	Leu
		260						265					270		
Ser	Val	Phe	Tyr	Thr	Thr	Val	Pro	Pro	Phe	Leu	Asn	Pro	Ile	Ile	Tyr
	275						280					285			
Ser	Leu	Arg	Asn	Lys	Pro	Asn	Lys	Glu	Gly	Cys	Glu	Glu	Ser	Asn	Ile
	290					295					300				
His	Ile	Phe	His	Ser											
305															

<210> 1819  
 <211> 313

<212> PRT  
 <213> Mus musculus

<400> 1819

Met	Pro	Asn	Ile	Thr	Ala	Phe	Thr	Gly	Phe	Leu	Leu	Thr	Ala	Phe	Phe
1			5					10					15		
Asp	Ser	Gln	Glu	Leu	Gln	Thr	Leu	Trp	Gly	Val	Phe	Phe	Leu	Gly	Ile
		20						25					30		
Tyr	Leu	Glu	Ala	Leu	Met	Ser	Asn	Leu	Ile	Ile	Ile	Thr	Leu	Ile	Thr
	35						40					45			
Leu	Asp	Leu	Gln	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Lys	Asn	Leu
	50					55					60				
Ser	Leu	Leu	Asp	Val	Phe	Phe	Val	Ser	Val	Pro	Ile	Pro	Lys	Phe	Val
65					70					75					80
Val	Asn	Ser	Leu	Ile	His	Asn	Asn	Ser	Ile	Ser	Val	Leu	Ala	Cys	Ala
			85						90					95	
Phe	Gln	Val	Phe	Leu	Met	Thr	Ser	Phe	Ser	Ser	Gly	Glu	Val	Phe	Val
			100					105					110		
Leu	Thr	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe	Pro	Leu
		115				120						125			
Asn	Tyr	Gly	Ala	Ile	Met	Asn	Asn	His	Thr	Cys	Val	Leu	Met	Met	Gly
	130					135					140				
Val	Ser	Trp	Ala	Thr	Gly	Met	Leu	Phe	Gly	Ala	Ile	Tyr	Thr	Ala	Gly
145					150					155					160
Thr	Phe	Ser	Met	Pro	Phe	Cys	Gly	Ser	Asn	Val	Ile	Pro	Gln	Phe	Phe
			165						170					175	
Cys	Asp	Val	Pro	Ser	Leu	Leu	Arg	Ile	Ser	Cys	Ser	Glu	Thr	Leu	Val
			180					185					190		
Ala	Ile	Tyr	Ser	Cys	Leu	Gly	Ile	Gly	Val	Cys	Leu	Gly	Met	Ser	Cys
	195						200					205			
Phe	Ile	Cys	Val	Val	Ile	Ser	Tyr	Phe	Tyr	Ile	Phe	Ser	Thr	Val	Leu
	210					215					220				
Lys	Ile	Pro	Thr	Thr	Lys	Gly	Gln	Ser	Lys	Ala	Phe	Ala	Thr	Cys	Ile
225					230					235					240
Pro	His	Leu	Thr	Val	Phe	Thr	Val	Phe	Leu	Val	Thr	Ala	Cys	Phe	Val
			245						250					255	
Tyr	Leu	Lys	Pro	Phe	Thr	Asn	Thr	Leu	Ser	Ile	Ser	Glu	Arg	Leu	Phe
		260						265					270		
Ser	Val	Leu	Tyr	Thr	Val	Leu	Pro	Ala	Leu	Asn	Pro	Leu	Ile	Tyr	
	275						280					285			
Ser	Leu	Arg	Asn	Thr	Asp	Val	Lys	Ser	Ala	Leu	Arg	Arg	Leu	Gln	Gln
	290					295					300				
Asn	Leu	Cys	Leu	Arg	Arg	Leu	Leu	Ile							
305					310										

<210> 1820  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 1820

Met	Pro	Asn	Val	Thr	Ala	Val	Thr	Gly	Phe	Ile	Leu	Met	Gly	Phe	Ser
1			5					10					15		
Asp	Ile	His	Glu	Leu	Gln	Ile	Leu	Cys	Gly	Val	Leu	Phe	Leu	Val	Leu
		20						25					30		
Tyr	Leu	Gly	Ile	Leu	Met	Ser	Asn	Leu	Leu	Ile	Ile	Ile	Leu	Ile	Thr





Leu	Gly	Ser	Met	Ser	Phe	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Lys	Pro	Leu
	115						120					125			
Arg	Tyr	Pro	Thr	Ile	Met	Thr	Ser	Asn	Leu	Cys	Leu	Gln	Leu	Ala	Leu
	130					135					140				
Ser	Ser	Trp	Leu	Ala	Gly	Phe	Thr	Ile	Val	Phe	Cys	Gln	Thr	Met	Leu
145					150					155					160
Ile	Val	Gln	Leu	Pro	Phe	Cys	Gly	Asn	Asn	Val	Ile	Asn	His	Phe	Tyr
				165					170					175	
Cys	Asp	Val	Gly	Pro	Ile	Leu	Lys	Ala	Ala	Cys	Ala	Asp	Thr	Ser	Ile
			180					185					190		
Leu	Glu	Leu	Leu	Gly	Leu	Leu	Ala	Thr	Ile	Leu	Val	Ile	Pro	Gly	Ser
	195						200					205			
Leu	Leu	Phe	Thr	Ile	Ile	Ser	Tyr	Ile	Tyr	Ile	Leu	Ser	Thr	Ile	Leu
	210					215					220				
Arg	Ile	Pro	Ser	Ala	Thr	Gly	Arg	Gln	Lys	Ala	Phe	Ser	Thr	Cys	Ala
225				230						235					240
Ser	His	Leu	Thr	Val	Val	Ser	Leu	Leu	Tyr	Gly	Ala	Val	Leu	Phe	Met
				245					250					255	
Tyr	Leu	Arg	Pro	Thr	Ala	His	Ser	Ser	Phe	Lys	Ile	Asn	Lys	Val	Val
			260				265						270		
Ser	Val	Leu	Asn	Thr	Ile	Leu	Thr	Pro	Leu	Leu	Asn	Pro	Phe	Ile	Tyr
	275						280					285			
Thr	Ile	Arg	Asn	Lys	Glu	Val	Lys	Gly	Ala	Leu	Arg	Lys	Ala	Ile	Thr
	290					295					300				
Cys	Ala	Asn	Arg	His	His	Ala	Lys								
305					310										

<210> 1822  
 <211> 307  
 <212> PRT  
 <213> Mus musculus

<400> 1822

Met	Glu	Ser	Gly	Asn	Leu	Ser	Met	Ile	Ile	Glu	Phe	Ile	Leu	Thr	Gly
1				5					10					15	
Phe	Pro	Thr	Lys	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Leu	Leu	Phe	Leu
			20					25					30		
Gly	Ile	Tyr	Leu	Val	Thr	Val	Leu	Gly	Asn	Leu	Gly	Met	Ile	Ile	Leu
	35						40					45			
Ile	Val	Leu	Ser	Ser	Gly	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Ser	Leu	Ser	Phe	Ile	Asp	Leu	Cys	His	Ser	Thr	Val	Ile	Thr	Pro	Lys
65					70					75					80
Met	Leu	Leu	Asn	Phe	Leu	Leu	Glu	Glu	Asn	Ile	Ile	Ser	Tyr	Pro	Glu
			85						90					95	
Cys	Met	Thr	Gln	Leu	Tyr	Phe	Phe	Ser	Leu	Phe	Ala	Ile	Ala	Glu	Cys
			100					105					110		
His	Met	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
	115					120						125			
Pro	Leu	Leu	Tyr	Lys	Val	Val	Met	Ser	His	His	Val	Cys	Phe	Trp	Phe
	130					135					140				
Thr	Val	Gly	Val	Tyr	Thr	Leu	Gly	Ile	Leu	Gly	Ser	Ser	Val	His	Thr
145					150					155					160
Gly	Leu	Met	Leu	Lys	Leu	Phe	Phe	Cys	Lys	Thr	Asn	Lys	Ile	Asn	His
				165					170					175	
Tyr	Phe	Cys	Asp	Leu	Phe	Pro	Leu	Leu	Glu	Leu	Ser	Cys	Ser	Ser	Ile





<210> 1825  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1825

Met	Leu	Lys	Gly	Asn	Leu	Ser	Glu	Val	Thr	Glu	Phe	Ile	Leu	Ala	Gly
1				5					10					15	
Leu	Thr	Asn	Lys	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Leu	Leu	Phe	Leu
		20					25						30		
Ala	Ile	Tyr	Val	Val	Thr	Val	Val	Gly	Asn	Leu	Gly	Met	Ile	Ile	Leu
		35					40					45			
Ile	Leu	Leu	Ser	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Ser
	50					55					60				
Ser	Leu	Ser	Phe	Ile	Asp	Leu	Cys	Gln	Ser	Thr	Val	Ile	Ile	Pro	Lys
65					70					75				80	
Met	Leu	Val	Asn	Phe	Val	Thr	Val	Lys	Asn	Ile	Ile	Ser	Tyr	Pro	Glu
			85					90						95	
Cys	Met	Thr	Gln	Leu	Tyr	Phe	Phe	Val	Thr	Phe	Ala	Ile	Ala	Glu	Cys
		100						105					110		
His	Met	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
	115						120					125			
Pro	Leu	Leu	Tyr	Asn	Ala	Val	Met	Ser	Phe	Gln	Val	Cys	Ser	Ser	Met
	130					135					140				
Ile	Phe	Gly	Val	Tyr	Ser	Ile	Ala	Leu	Ile	Gly	Ala	Thr	Thr	His	Thr
145					150					155				160	
Val	Cys	Met	Leu	Arg	Val	Asn	Phe	Cys	Lys	Ala	Asn	Val	Ile	Asn	His
			165						170					175	
Tyr	Phe	Cys	Asp	Leu	Phe	Pro	Leu	Leu	Glu	Leu	Pro	Cys	Ser	Asp	Thr
		180					185					190			
Phe	Ile	Asn	Glu	Val	Val	Val	Leu	Cys	Phe	Ser	Val	Phe	Asn	Ile	Phe
	195						200					205			
Ile	Pro	Thr	Leu	Thr	Ile	Leu	Thr	Ser	Tyr	Ile	Phe	Ile	Ile	Ala	Ser
	210					215					220				
Ile	Leu	Arg	Ile	Lys	Ser	Thr	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr
225				230					235					240	
Cys	Ser	Ser	His	Ile	Ser	Ala	Val	Ala	Ile	Phe	Phe	Gly	Ser	Leu	Ala
			245						250					255	
Phe	Met	Tyr	Leu	Gln	Pro	Ser	Ser	Val	Ser	Ser	Met	Asp	Gln	Gly	Lys
		260					265					270			
Val	Ser	Ser	Val	Phe	Tyr	Thr	Ile	Val	Val	Pro	Met	Leu	Asn	Pro	Leu
	275						280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Val	Ala	Leu	Asn	Lys	Phe
	290					295					300				
Phe	Glu	Arg	Lys	Phe	Phe	Leu									
305					310										

<210> 1826  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1826

Met	Phe	Gln	Gly	Asn	Leu	Ser	Gly	Val	Thr	Glu	Phe	Asn	Leu	Ala	Gly
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Leu	Thr	Asp	Lys	Pro	Gly	Leu	Gln	Val	Pro	Leu	Phe	Leu	Leu	Phe	Leu
			20					25					30		
Gly	Ile	Tyr	Val	Val	Thr	Val	Val	Gly	Asn	Leu	Ser	Met	Ile	Thr	Leu
		35					40					45			
Ile	Leu	Phe	Ser	Ser	Gln	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Ser
	50					55					60				
Ser	Leu	Ser	Phe	Ile	Asp	Leu	Cys	Gln	Ser	Asn	Val	Ile	Ile	Pro	Lys
65					70					75					80
Met	Leu	Val	Asn	Phe	Leu	Ala	Val	Lys	Asn	Ile	Ile	Ser	Tyr	Pro	Glu
				85					90					95	
Cys	Leu	Thr	Gln	Leu	Cys	Phe	Phe	Ala	Thr	Phe	Gly	Ile	Ala	Glu	Cys
			100					105					110		
Gln	Met	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	Leu	Tyr	Asn	Ala	Val	Met	Ser	Phe	Gln	Val	Cys	Ser	Trp	Met
	130					135					140				
Ile	Phe	Gly	Val	Phe	Ser	Met	Ala	Leu	Ile	Gly	Ala	Thr	Thr	Gln	Thr
145					150					155					160
Val	Cys	Met	Leu	Arg	Val	Asp	Phe	Cys	Asn	Ala	Asn	Val	Ile	Asn	His
				165					170					175	
Tyr	Phe	Cys	Asp	Leu	Ser	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Thr
		180						185					190		
Phe	Ile	Asn	Glu	Val	Leu	Ala	Leu	Cys	Phe	Ser	Val	Phe	Asn	Ile	Phe
		195					200					205			
Ile	Pro	Thr	Leu	Thr	Ile	Leu	Ser	Ser	Tyr	Ile	Phe	Ile	Ile	Ala	Ser
	210					215					220				
Ile	Leu	Gln	Ile	Lys	Ser	Thr	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Ile	Ser	Ala	Val	Ala	Ile	Phe	Phe	Gly	Ser	Leu	Ala
			245						250					255	
Phe	Met	Tyr	Leu	Gln	Pro	Ser	Ser	Val	Ser	Ser	Met	Asp	Gln	Gly	Lys
		260						265					270		
Val	Ser	Ser	Val	Phe	Tyr	Thr	Ile	Val	Val	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Val	Ala	Leu	Asn	Lys	Phe
	290					295					300				
Leu	Glu	Arg	Ile	Phe	Ser	Cys	Lys	Gln	Asn						
305					310										

<210> 1827

<211> 312

<212> PRT

<213> Mus musculus

<400> 1827

Met	Ala	Tyr	Ser	Asn	Gln	Ser	Arg	Val	Thr	Glu	Phe	Ile	Ile	Ala	Gly
1				5					10					15	
Leu	Thr	Asn	Lys	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Leu	Leu	Phe	Leu
		20						25					30		
Gly	Ile	Tyr	Leu	Phe	Thr	Val	Leu	Gly	Asn	Leu	Gly	Met	Ile	Ile	Leu
		35					40					45			
Ile	Leu	Leu	Ser	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Ser	Leu	Ser	Phe	Ile	Asp	Leu	Cys	Tyr	Ser	Thr	Ile	Ile	Thr	Pro	Lys
65					70					75					80
Met	Leu	Val	Asn	Phe	Val	Thr	Thr	Lys	Asn	Val	Ile	Ser	Tyr	Gln	Glu



Gly	Leu	Thr	Ile	His	Leu	Pro	Phe	Cys	Gly	Pro	Asp	Lys	Leu	Asp	Asn
				165					170					175	
Phe	Tyr	Cys	Asp	Val	Pro	Gln	Leu	Ile	Lys	Leu	Ala	Cys	Thr	Asp	Thr
			180					185					190		
Phe	Val	Leu	Glu	Leu	Leu	Met	Val	Ser	Asn	Asn	Gly	Leu	Val	Thr	Leu
		195					200					205			
Met	Cys	Phe	Leu	Val	Leu	Leu	Gly	Ser	Tyr	Thr	Ala	Leu	Leu	Val	Met
	210					215					220				
Leu	Arg	Ser	His	Ser	Lys	Glu	Gly	Arg	Ser	Lys	Ala	Leu	Ser	Thr	Cys
225					230					235					240
Ala	Ser	His	Ile	Thr	Val	Val	Thr	Ile	Ile	Phe	Val	Pro	Cys	Ile	Tyr
			245						250					255	
Ile	Tyr	Ala	Arg	Pro	Phe	Arg	Thr	Phe	Pro	Met	Asp	Lys	Ala	Val	Ser
		260						265					270		
Val	Leu	Tyr	Thr	Met	Val	Thr	Pro	Met	Leu	Asn	Pro	Ala	Ile	Tyr	Thr
		275					280					285			
Leu	Arg	Asn	Lys	Glu	Val	Ile	Val	Ala	Met	Lys	Lys	Leu	Trp	Arg	Arg
	290					295					300				
Lys	Lys	Asp	Phe	Leu	Gly	Ser	Ser	Asp	His						
305					310										

<210> 1829

<211> 312

<212> PRT

<213> Mus musculus

<400> 1829

Met	Gly	Asn	Tyr	Ser	Ala	Val	Thr	Glu	Phe	Phe	Leu	Val	Gly	Leu	Ser
1				5					10					15	
Gln	Tyr	Pro	Glu	Leu	Gln	Leu	Phe	Leu	Phe	Val	Leu	Cys	Leu	Ile	Met
			20					25					30		
Tyr	Leu	Ile	Ile	Leu	Leu	Gly	Asn	Ser	Leu	Leu	Ile	Ile	Ile	Ser	Ile
		35					40					45			
Leu	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Asn	Leu
	50					55					60				
Ser	Phe	Leu	Asp	Ile	Cys	Tyr	Thr	Ser	Ser	Ser	Ile	Pro	Gln	Met	Leu
65					70					75					80
Ile	Met	Phe	Met	Ser	Ala	Arg	Lys	Ser	Ile	Ser	Phe	Leu	Gly	Cys	Ala
				85					90					95	
Leu	Gln	Met	Val	Ile	Ser	Leu	Gly	Leu	Gly	Ser	Thr	Glu	Cys	Val	Leu
		100						105					110		
Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Asn	Pro	Leu
		115					120					125			
Arg	Tyr	Pro	Ile	Ile	Met	Asn	Lys	Val	Leu	Tyr	Val	His	Met	Ala	Val
	130					135						140			
Trp	Ser	Trp	Val	Ile	Gly	Cys	Leu	Asn	Ser	Leu	Val	Gln	Thr	Val	Leu
145					150					155					160
Thr	Met	Val	Leu	Pro	Phe	Cys	Gly	Asn	Asn	Val	Ile	Asp	His	Leu	Thr
				165					170					175	
Cys	Glu	Ile	Leu	Ala	Leu	Leu	Lys	Leu	Val	Cys	Ser	Asp	Ile	Thr	Met
		180						185					190		
Asn	Val	Leu	Ile	Met	Thr	Val	Ala	Ser	Ile	Val	Leu	Leu	Met	Ile	Pro
		195					200					205			
Leu	Met	Leu	Ile	Phe	Val	Ser	Tyr	Ile	Phe	Ile	Leu	Ser	Ser	Ile	Leu
	210					215					220				
Arg	Ile	Asn	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser

225					230					235				240
Ala	His	Leu	Thr	Val	Val	Ile	Leu	Phe	Tyr	Gly	Ser	Ala	Leu	Phe Met
				245					250					255
Tyr	Met	Lys	Pro	Lys	Ser	Lys	Tyr	Thr	Lys	Ala	Ser	Asp	Glu	Ile Ile
			260					265					270	
Gly	Leu	Ser	Tyr	Gly	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Ile	Ile Tyr
		275					280					285		
Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Glu	Ala	Val	Lys	Lys	Ile	Leu Ser
	290					295					300			
Lys	Arg	Leu	Tyr	Leu	Arg	Lys	Ile							
305					310									

<210> 1830  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1830

Met	Glu	Pro	Gln	Asn	His	Thr	Ser	Ala	Ser	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Glu	Lys	Pro	Asp	His	Asp	Pro	Val	Leu	Phe	Ser	Leu	Phe	Leu
		20						25					30		
Cys	Met	Tyr	Met	Ile	Thr	Val	Val	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Ala
	35					40						45			
Ile	Ser	Phe	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala
	50					55					60				
Asn	Leu	Ser	Leu	Val	Asp	Phe	Cys	Leu	Ala	Thr	Asn	Thr	Val	Pro	Lys
65				70						75					80
Met	Leu	Val	Asn	Ile	Gln	Thr	Arg	Asn	Lys	Ser	Ile	Ser	Tyr	Pro	Cys
			85					90						95	
Cys	Leu	Thr	Gln	Met	Tyr	Phe	Phe	His	Phe	Phe	Gly	Ile	Met	Asp	Ser
		100						105					110		
Val	Leu	Ile	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His
	115					120						125			
Pro	Leu	His	Tyr	Ser	Thr	Ile	Met	Ser	Pro	Arg	Leu	Cys	Gly	Leu	Leu
	130					135					140				
Val	Gly	Val	Pro	Trp	Val	Tyr	Ser	Cys	Phe	Ile	Ser	Leu	Thr	His	Ile
145				150						155					160
Leu	Leu	Met	Ala	Arg	Leu	Val	Phe	Cys	Gly	Lys	Asn	Glu	Leu	Pro	His
			165					170						175	
Tyr	Phe	Cys	Asp	Leu	Thr	Pro	Leu	Leu	Arg	Leu	Ser	Cys	Thr	Asp	Thr
		180						185					190		
Thr	Val	Asn	Lys	Ile	Phe	Val	Leu	Ile	Val	Ala	Gly	Met	Val	Ile	Ala
	195						200					205			
Thr	Pro	Phe	Val	Cys	Ile	Leu	Ala	Ser	Tyr	Ala	Arg	Ile	Ile	Val	Ala
	210					215					220				
Ile	Met	Lys	Val	Pro	Ser	Ala	Gly	Gly	Arg	Lys	Lys	Ala	Phe	Ser	Thr
225				230						235					240
Cys	Ser	Ser	His	Leu	Ser	Val	Val	Ala	Leu	Phe	Tyr	Gly	Thr	Thr	Ile
			245						250					255	
Gly	Val	Tyr	Leu	Cys	Pro	Ser	Ser	Val	Arg	Thr	Ala	Val	Lys	Glu	Lys
		260						265					270		
Ala	Ser	Ala	Val	Met	Tyr	Thr	Ala	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe
	275						280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Leu	Lys	Gly	Ala	Leu	Lys	Lys	Ile
	290					295					300				



Ile Asn Arg Lys Ile Ser Thr Ser Ser  
 305 310

<210> 1831  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1831  
 Met Glu Ser Lys Asn Gln Thr Asp Val Ser Glu Phe Phe Leu Met Gly  
 1 5 10 15  
 Ile Thr Asp Asp Ile Ala Leu Lys Pro Leu Ile Phe Ser Met Phe Thr  
 20 25 30  
 Ser Met Tyr Leu Ile Thr Ile Leu Gly Asn Leu Leu Ile Ile Leu Thr  
 35 40 45  
 Val Cys Ser Asp Ser His Leu Gln Thr Pro Met Tyr Ile Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Asn Asp Ile Cys Leu Ser Thr Thr Ile Ile Pro Lys  
 65 70 75 80  
 Thr Leu Val Asn Ile His Ala Gln Asp Gln Ser Ile Thr Tyr Thr Ser  
 85 90 95  
 Cys Leu Thr Gln Ile Cys Phe Thr Leu Phe Cys Ser Phe Glu Ser  
 100 105 110  
 Cys Leu Leu Ser Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His  
 115 120 125  
 Pro Leu Asn Tyr Thr Thr Ile Met Asn Pro Gln Thr Cys Gly Leu Leu  
 130 135 140  
 Ile Leu Leu Ser Leu Ile Ile Ser Leu Val Asn Ser Gly Leu Leu Gly  
 145 150 155 160  
 Leu Met Val Leu Arg Leu Ser Phe Cys Thr Asn Leu Glu Ile Pro Leu  
 165 170 175  
 Phe Phe Cys Glu Leu Ala Gln Val Ile Lys Leu Ala Cys Ser Asp Thr  
 180 185 190  
 Leu Val Asn Tyr Ile Leu Ile Tyr Leu Ala Thr Ile Ile Leu Asn Gly  
 195 200 205  
 Ile Pro Ile Ser Gly Ile Ile Phe Ser Tyr Thr Gln Ile Ala Ser Ser  
 210 215 220  
 Val Leu Arg Met Ser Ser Val Lys Gly Lys Tyr Lys Ala Ile Ser Thr  
 225 230 235 240  
 Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Ala Leu  
 245 250 255  
 Gly Val Tyr Ile Ser Ser Ser Phe Thr Thr Ser Val Thr Asn Thr Ala  
 260 265 270  
 Phe Ala Tyr Val Met Cys Thr Leu Val Pro Gln Met Leu Asn Pro Phe  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Arg Asp Met Glu Val Ala Leu Arg Lys His  
 290 295 300  
 Ile Asn Arg Ala Met Cys Leu Leu  
 305 310

<210> 1832  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1832

Met	Gly	Arg	Glu	Asn	Gln	Ser	Phe	Val	Asp	Glu	Phe	Val	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Gln	Asp	Ala	Gln	Thr	Gln	Ile	Leu	Leu	Phe	Val	Leu	Phe	Phe
			20					25					30		
Ile	Val	Tyr	Ile	Leu	Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Val	Leu
		35					40					45			
Ile	Leu	Met	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg
		50				55					60				
Asn	Leu	Ser	Phe	Ala	Asp	Leu	Cys	Phe	Ser	Asn	Ser	Ile	Val	Pro	Gln
65					70					75					80
Val	Leu	Ser	His	Phe	Leu	Val	Lys	Arg	Lys	Thr	Ile	Ser	Phe	Trp	Gly
			85						90					95	
Cys	Val	Thr	Gln	Val	Ile	Val	Ser	Leu	Gln	Ile	Gly	Cys	Thr	Glu	Cys
			100					105					110		
Ala	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys	Lys
			115				120					125			
Pro	Leu	His	Tyr	Ser	Thr	Ile	Met	Thr	Gln	Gln	Leu	Cys	Leu	Gln	Leu
					135						140				
Ala	Leu	Gly	Ser	Trp	Ala	Ser	Gly	Leu	Leu	Val	Cys	Leu	Val	Asp	Ile
145					150					155					160
Ala	Val	Ala	Phe	His	Leu	Pro	Tyr	Arg	Gly	Gln	Asn	Ile	Val	Ser	His
			165						170					175	
Tyr	Phe	Cys	Glu	Leu	Pro	Ala	Leu	Leu	Lys	Val	Ala	Ser	Ala	Asp	Thr
			180					185					190		
Tyr	Ser	Thr	Glu	Met	Ala	Ile	Phe	Ala	Met	Gly	Val	Val	Ile	Leu	Leu
		195					200					205			
Ala	Pro	Val	Ser	Leu	Ile	Leu	Ile	Ser	Tyr	Trp	Asn	Ile	Ile	Ser	Thr
		210				215					220				
Val	Ile	Gln	Met	Gln	Ser	Gly	Glu	Gly	Arg	Leu	Lys	Val	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ile	Val	Val	Val	Leu	Phe	Tyr	Gly	Ser	Ala	Ile
			245						250					255	
Phe	Asn	Tyr	Met	Gln	Pro	Asn	Thr	Lys	Thr	Arg	Lys	Lys	Gln	Asp	Lys
			260					265					270		
Ile	Met	Ser	Val	Phe	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Ile
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Ser	Ala	Phe	Arg	Lys	Leu
		290				295					300				
Ala	Ala	Arg	Val	Val	Phe	Phe	Arg	Lys	Gln						
305					310										

<210> 1833

<211> 321

<212> PRT

<213> Mus musculus

<400> 1833

Met	Lys	Ser	Cys	Lys	Arg	Met	Thr	Trp	Gly	Asn	Trp	Thr	Thr	Val	Arg
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Glu	Phe	Ile	Leu	Met	Ser	Phe	Ser	Ser	Leu	Ser	Tyr	Glu	Val	Gln	Ala
			20					25					30		
Leu	Leu	Phe	Leu	Leu	Phe	Leu	Ile	Ile	Tyr	Leu	Val	Thr	Leu	Met	Gly
		35					40					45			
Asn	Val	Leu	Ile	Ile	Leu	Val	Thr	Thr	Ala	Asp	Ser	Ala	Leu	Gln	Ser
		50				55					60				

Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Leu	Ser	Phe	Leu	Glu	Ile	Gly	Phe
65					70					75					80
Asn	Leu	Val	Ile	Val	Pro	Lys	Met	Leu	Ser	Thr	Leu	Ile	Leu	Gln	Asp
				85					90					95	
Lys	Thr	Ile	Ser	Phe	Leu	Gly	Cys	Ala	Thr	Gln	Met	Tyr	Phe	Phe	Phe
			100					105					110		
Phe	Phe	Gly	Ala	Ala	Glu	Cys	Cys	Leu	Leu	Ala	Thr	Met	Ala	Tyr	Asp
		115					120					125			
Arg	Tyr	Met	Ala	Ile	Cys	Asp	Pro	Leu	His	Tyr	Pro	Ile	Ile	Met	Ser
	130					135					140				
Arg	Arg	Ser	Cys	Ala	Gln	Leu	Ala	Ala	Ala	Ser	Trp	Phe	Ser	Gly	Phe
145					150					155					160
Pro	Val	Ala	Thr	Val	Gln	Thr	Thr	Trp	Ile	Phe	Ser	Phe	Pro	Phe	Cys
				165					170					175	
Gly	Pro	Asn	Met	Val	Asn	His	Phe	Phe	Cys	Asp	Ser	Pro	Pro	Val	Ile
			180					185					190		
Ala	Leu	Val	Cys	Ala	Asp	Thr	Ser	Leu	Phe	Glu	Leu	Glu	Ala	Leu	Thr
		195					200					205			
Ala	Thr	Val	Leu	Phe	Ile	Leu	Phe	Pro	Phe	Leu	Leu	Ile	Leu	Gly	Ser
	210					215						220			
Tyr	Val	Arg	Ile	Leu	Ser	Thr	Ile	Phe	Arg	Met	Pro	Ser	Ala	Glu	Gly
225					230					235					240
Lys	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Leu	Val	Val	Ser
			245						250					255	
Leu	Phe	Tyr	Ser	Thr	Ala	Ile	Leu	Thr	Tyr	Phe	Arg	Pro	Arg	Ser	Asn
			260					265					270		
Thr	Ser	Pro	Glu	Asn	Lys	Lys	Met	Leu	Ser	Leu	Ser	Tyr	Thr	Val	Ile
		275					280					285			
Thr	Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Asn	Glu	Val
	290					295					300				
Lys	Ala	Ala	Leu	Arg	Arg	Ile	Ile	His	Arg	Thr	Leu	Gly	Pro	Gln	Lys
305					310					315					320
Leu															

<210> 1834  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1834

Met	Glu	Leu	Trp	Asn	Ser	Thr	Val	Gly	Ser	Gly	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Ile	Leu	Asp	Gly	Ser	Gly	Ser	Pro	Glu	Leu	Leu	Cys	Ala	Ala	Ile	Thr
			20					25					30		
Ala	Leu	Tyr	Phe	Leu	Ala	Leu	Thr	Ser	Asn	Gly	Leu	Leu	Leu	Leu	Val
		35					40					45			
Ile	Thr	Met	Asp	Ala	Arg	Leu	His	Val	Pro	Met	Tyr	Leu	Leu	Leu	Gly
	50					55					60				
Gln	Leu	Ser	Leu	Met	Asp	Leu	Leu	Leu	Thr	Ser	Val	Ile	Thr	Pro	Lys
65					70					75					80
Ala	Val	Val	Asp	Phe	Leu	Leu	Lys	Asp	Asn	Thr	Ile	Ser	Phe	Gly	Gly
			85						90					95	
Cys	Ala	Leu	Gln	Met	Phe	Leu	Glu	Leu	Ala	Leu	Gly	Ser	Ala	Glu	Asp
			100					105					110		
Leu	Leu	Leu	Ala	Phe	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Gln



Tyr	Thr	Ala	Glu	Met	Val	Ile	Phe	Ala	Met	Gly	Ile	Ile	Ile	Leu	Leu
		195					200					205			
Gly	Pro	Val	Ser	Leu	Ile	Leu	Phe	Ser	Tyr	Trp	Asn	Ile	Ile	Ser	Thr
		210				215					220				
Val	Val	Gln	Ile	Gln	Ser	Gly	Glu	Gly	Arg	Leu	Lys	Val	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Phe	Ile	Val	Val	Ile	Phe	Phe	Tyr	Gly	Ser	Thr	Ile
			245						250					255	
Phe	Thr	Tyr	Met	Gln	Pro	Asn	Ser	Lys	Lys	Met	Asn	Glu	Lys	Asp	Lys
			260					265					270		
Val	Ile	Ser	Val	Phe	Tyr	Ser	Ile	Val	Thr	Ser	Met	Met	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Lys	Lys	Val
	290				295						300				
Leu	Lys	Arg	Glu	Ile	Arg										
305					310										

<210> 1836  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 1836

Met	Glu	Leu	Trp	Asn	Ser	Thr	Leu	Gly	Ser	Gly	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Ile	Leu	Asp	Asp	Ser	Gly	Ser	Pro	Glu	Ile	Leu	Cys	Ala	Thr	Phe	Thr
		20						25					30		
Ala	Leu	Tyr	Met	Leu	Ala	Met	Ile	Ser	Asn	Gly	Ile	Leu	Leu	Leu	Val
		35				40					45				
Ile	Thr	Met	Asp	Ala	Arg	Leu	His	Val	Pro	Met	Tyr	Leu	Leu	Leu	Trp
	50					55					60				
Gln	Leu	Ser	Leu	Met	Asp	Leu	Leu	Leu	Thr	Ser	Val	Ile	Thr	Pro	Lys
65				70					75					80	
Ala	Val	Ile	Asp	Phe	Leu	Leu	Lys	Asp	Asn	Thr	Ile	Ser	Phe	Gly	Gly
			85					90						95	
Cys	Ala	Leu	Gln	Met	Phe	Leu	Glu	Leu	Thr	Leu	Gly	Gly	Ala	Glu	Asp
		100					105						110		
Leu	Leu	Leu	Ala	Phe	Met	Ala	Tyr	Gly	Arg	Tyr	Val	Ala	Ile	Cys	His
		115				120						125			
Pro	Leu	Asn	Tyr	Met	Thr	Phe	Met	Lys	Pro	Arg	Ile	Cys	Trp	Leu	Gly
	130					135					140				
Val	Phe	Ile	Ser	Trp	Thr	Leu	Ala	Ser	Leu	Ser	Ala	Val	Gly	Tyr	Thr
145					150					155					160
Ile	Tyr	Thr	Met	Gln	Tyr	Pro	Phe	Cys	Lys	Ser	Arg	Lys	Ile	Arg	His
			165						170					175	
Leu	Phe	Cys	Glu	Ile	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr
		180					185					190			
Ser	Lys	Tyr	Glu	Leu	Met	Val	Tyr	Val	Met	Gly	Val	Ile	Phe	Leu	Leu
	195					200						205			
Leu	Pro	Leu	Ala	Ala	Ile	Leu	Ser	Ser	Tyr	Thr	Leu	Ile	Leu	Leu	Thr
	210					215					220				
Val	Leu	His	Met	Pro	Ser	His	Glu	Gly	Arg	Lys	Lys	Ala	Leu	Val	Thr
225					230					235					240
Cys	Ser	Ser	His	Leu	Thr	Val	Val	Gly	Met	Trp	Tyr	Gly	Gly	Ala	Ser
			245						250					255	
Phe	Met	Tyr	Val	Leu	Pro	Ser	Ser	Phe	His	Thr	Pro	Lys	Gln	Asp	Asn

			260					265				270			
Ile	Phe	Ser	Val	Phe	Tyr	Thr	Ile	Val	Thr	Pro	Ala	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Thr	Gly	Ala	Leu	Arg	Arg	Val
	290					295					300				
Leu	Gly	Gly	Arg	Leu	Leu	Pro	Glu	His	Ser	Thr	Phe				
305					310					315					

<210> 1837  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1837

Met	Glu	Phe	Arg	Asn	Ser	Thr	Leu	Gly	Ser	Gly	Phe	Ile	Leu	Val	Gly
1				5				10					15		
Ile	Leu	Asn	Gly	Ser	Asp	Ser	Pro	Glu	Leu	Leu	Cys	Ala	Thr	Ile	Thr
		20						25					30		
Phe	Leu	Tyr	Thr	Leu	Ala	Leu	Thr	Ser	Asn	Gly	Leu	Leu	Leu	Leu	Val
	35					40					45				
Ile	Thr	Val	Asp	Thr	Arg	Leu	His	Val	Pro	Met	Tyr	Leu	Leu	Leu	Gly
	50					55					60				
Gln	Leu	Ser	Leu	Ile	Asp	Leu	Leu	Leu	Thr	Ser	Val	Ile	Thr	Pro	Lys
65				70						75					80
Ala	Val	Met	Asp	Phe	Leu	Leu	Arg	Asp	Asn	Thr	Ile	Ser	Phe	Gly	Gly
			85					90						95	
Cys	Ala	Leu	Gln	Met	Phe	Ile	Glu	Leu	Val	Leu	Gly	Gly	Ala	Glu	Asp
		100					105						110		
Leu	Leu	Leu	Ala	Phe	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
	115					120						125			
Pro	Leu	Asn	Tyr	Met	Ile	Leu	Met	Ser	Pro	Arg	Val	Cys	Trp	Leu	Met
	130				135						140				
Val	Thr	Ala	Ser	Trp	Ile	Leu	Ser	Ile	Gln	Met	Ala	Leu	Gly	Phe	Thr
145				150						155					160
Ile	Asn	Thr	Met	His	Tyr	Ser	Phe	Cys	Lys	Ser	Arg	His	Ile	Arg	His
			165						170					175	
Leu	Phe	Cys	Glu	Ile	Pro	Pro	Leu	Leu	Asp	Leu	Ala	Cys	Ala	Asp	Thr
		180					185					190			
Ser	Ser	Tyr	Lys	Leu	Val	Val	Tyr	Leu	Val	Gly	Val	Phe	Met	Leu	Ile
	195					200						205			
Leu	Pro	Leu	Thr	Ala	Ile	Phe	Phe	Ser	Tyr	Ala	Arg	Ile	Leu	Phe	Thr
	210				215						220				
Val	Leu	His	Met	Pro	Ser	Asn	Glu	Ser	Arg	Lys	Lys	Ala	Leu	Val	Thr
225				230						235					240
Cys	Ser	Ser	His	Met	Thr	Val	Val	Gly	Met	Tyr	Tyr	Gly	Ala	Leu	Thr
			245					250						255	
Val	Met	Tyr	Phe	Leu	Pro	Ser	Ser	Tyr	His	Asn	Pro	Lys	Gln	Asp	Asn
		260					265						270		
Ile	Leu	Ser	Val	Phe	Tyr	Thr	Ile	Val	Thr	Pro	Ala	Leu	Asn	Pro	Leu
	275						280					285			
Ile	His	Ser	Leu	Arg	Asn	Lys	Glu	Val	Thr	Gly	Ala	Leu	Arg	Lys	Val
	290					295					300				
Leu	Gly	Asn	Thr	Cys	Cys	His	His	Pro	Ile	His	Leu	Arg			
305					310					315					

<210> 1838  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1838  
 Met Glu Val Phe Asn Ser Thr Leu Gly Ser Gly Phe Ile Leu Val Gly  
 1 5 10 15  
 Ile Leu Asn Asp Ser Gly Phe Pro Glu Met Leu Cys Ala Ile Ile Ile  
 20 25 30  
 Ala Leu Tyr Phe Leu Ala Leu Thr Ser Asn Gly Leu Leu Leu Val  
 35 40 45  
 Ile Thr Met Asp Ala Arg Leu His Met Pro Met Tyr Leu Leu Leu Trp  
 50 55 60  
 Gln Leu Ser Leu Met Asp Leu Leu Gln Pro Ser Val Ile Ile Pro Lys  
 65 70 75 80  
 Ala Val Leu Asp Phe Leu Leu Lys Asp Asn Thr Ile Ser Phe Gly Gly  
 85 90 95  
 Cys Ala Phe Gln Met Phe Leu Ala Leu Thr Leu Gly Ser Ala Glu Asp  
 100 105 110  
 Leu Leu Leu Ser Phe Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His  
 115 120 125  
 Pro Leu Asn Tyr Thr Ile Leu Met Ser Gln Lys Val Cys Tyr Leu Met  
 130 135 140  
 Ile Ala Thr Ser Trp Ile Leu Ala Ser Leu Ser Ala Leu Gly Tyr Ser  
 145 150 155 160  
 Met Tyr Thr Met Gln Tyr Pro Phe Cys Lys Ser Arg Gln Ile Arg His  
 165 170 175  
 Leu Phe Cys Glu Ile Pro Pro Leu Leu Lys Leu Ala Cys Gly Asp Thr  
 180 185 190  
 Ser Thr Tyr Glu Leu Met Val Tyr Leu Met Gly Val Thr Leu Leu Phe  
 195 200 205  
 Pro Ala Leu Ala Ala Ile Leu Thr Ser Tyr Ser Leu Ile Leu Leu Thr  
 210 215 220  
 Val Leu His Met Pro Ser Asn Glu Gly Arg Lys Lys Ala Leu Val Thr  
 225 230 235 240  
 Cys Ser Ser His Leu Thr Val Val Gly Met Trp Tyr Gly Gly Ala Ile  
 245 250 255  
 Phe Met Tyr Ile Leu Pro Ser Ser Phe His Ser Pro Lys Gln Asp Asn  
 260 265 270  
 Ile Ser Ser Val Phe Tyr Met Ile Val Thr Pro Ala Leu Asn Pro Leu  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Asn Glu Val Ile Glu Ala Leu Lys Arg Val  
 290 295 300  
 Leu Gly Lys Lys Phe Ser Val His Ser Thr Phe  
 305 310 315

<210> 1839  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 1839  
 Met Gly Gly Gly Asn Gln Thr Tyr Ile Val Glu Phe Ile Leu Leu Gly  
 1 5 10 15  
 Leu Ser Glu Asn Pro Lys Val Gln Ile Leu Leu Phe Cys Ile Phe Leu





Cys	Ala	Leu	Gln	Met	Phe	Leu	Glu	Leu	Val	Leu	Gly	Ser	Ala	Glu	Asp
		100						105					110		
Leu	Leu	Leu	Ala	Phe	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	Asn	Tyr	Met	Ile	Phe	Met	Arg	Pro	Ser	Val	Cys	Trp	Phe	Ile
	130					135					140				
Val	Gly	Thr	Ile	Trp	Ile	Leu	Ala	Ser	Val	Ile	Ala	Leu	Gly	Phe	Thr
145					150					155					160
Ile	Tyr	Thr	Met	Asn	Tyr	Pro	Phe	Cys	Lys	Ser	Arg	Gln	Ile	Arg	His
			165						170					175	
Leu	Phe	Cys	Glu	Ile	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Glu	Asp	Thr
		180						185					190		
Ser	Thr	Tyr	Glu	Leu	Met	Val	Tyr	Leu	Ala	Gly	Val	Ser	Val	Leu	Ile
	195						200					205			
Leu	Pro	Leu	Ala	Val	Ile	Leu	Ala	Ser	Tyr	Val	Arg	Ile	Leu	Phe	Thr
	210					215					220				
Val	Leu	His	Met	Pro	Ser	Asn	Glu	Gly	Arg	Lys	Lys	Ala	Leu	Val	Thr
225					230					235					240
Cys	Ser	Ser	His	Leu	Ile	Val	Val	Gly	Met	Trp	Tyr	Gly	Gly	Ser	Ser
			245						250					255	
Leu	Met	Tyr	Val	Leu	Pro	Ser	Gln	Phe	His	Ser	Pro	Lys	Gln	Asp	Asn
		260						265					270		
Ile	Leu	Ser	Ile	Phe	Tyr	Thr	Ile	Val	Thr	Pro	Ala	Leu	Asn	Pro	Leu
	275						280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Thr	Gly	Ala	Leu	Arg	Arg	Ile
	290				295						300				
Phe	Gly	Lys	Trp	Leu	Gly	Pro	Ala	His	Phe	Leu	Gly	Ser	Ser	Phe	
305					310					315					

<210> 1841  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 1841

Met	Ala	Gly	Thr	Asn	His	Thr	Glu	Val	Ile	Glu	Tyr	Val	Leu	Leu	Gly
1				5					10					15	
Leu	Gln	Asp	His	His	Gly	Leu	Glu	Ile	Ala	Leu	Phe	Val	Leu	Cys	Leu
		20						25					30		
Gly	Ile	Tyr	Cys	Met	Thr	Leu	Leu	Gly	Asn	Ser	Phe	Leu	Val	Gly	Leu
	35					40						45			
Ile	Val	Leu	Asp	Thr	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Ile	Ser
	50					55					60				
Asn	Leu	Ser	Leu	Ile	Asp	Ile	Cys	Gly	Thr	Ser	Ser	Phe	Thr	Pro	Met
65					70					75					80
Met	Leu	Leu	Asn	Phe	Leu	Asp	Val	Gln	Arg	Thr	Ile	Ser	Phe	Pro	Ser
			85						90					95	
Cys	Ala	Leu	Gln	Met	Tyr	Leu	Thr	Leu	Ala	Leu	Gly	Thr	Thr	Glu	Cys
		100						105					110		
Leu	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Gln
	115						120					125			
Pro	Leu	His	Tyr	Pro	Glu	Leu	Met	Asn	Gly	Pro	Leu	Cys	Ile	Gln	Met
	130					135					140				
Ala	Gly	Ile	Ser	Trp	Gly	Thr	Gly	Phe	Ala	Asn	Ser	Leu	Leu	His	Ser
145					150					155					160
Ile	Leu	Val	Trp	His	Leu	Pro	Phe	Cys	Gly	His	Tyr	Ile	Ile	Asn	His



Cys	Ala	Ser	His	Leu	Leu	Gly	Val	Thr	Val	Phe	Tyr	Gly	Thr	Leu	Ile
				245					250					255	
Phe	Thr	Tyr	Leu	Lys	Pro	Ser	Asn	Ser	Tyr	Tyr	Ser	Gly	Lys	Glu	Gln
			260					265					270		
Val	Ala	Ser	Val	Phe	Tyr	Thr	Ile	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Ser	Ala	Ile	His	Arg	Val
	290					295					300				
Ile	Lys	Lys	Gln	Lys	Gly	Ser	Arg	Leu	Lys	Phe	Arg	Val	Ala	Leu	Ser
305					310					315					320
Asp															

<210> 1843  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1843

Met	Gln	Tyr	Thr	Asn	Tyr	Thr	Lys	Pro	Thr	Glu	Phe	Ile	Phe	Ile	Gly
1				5					10					15	
Phe	Thr	Asp	Tyr	Gln	Pro	Ile	Arg	Leu	Met	Leu	Phe	Leu	Val	Phe	Phe
		20					25						30		
Ile	Val	Tyr	Thr	Leu	Thr	Leu	Val	Gly	Asn	Ile	Gly	Leu	Ile	Ile	Leu
		35				40						45			
Val	Asn	Ile	Asp	Leu	Ser	Leu	Gln	Thr	Pro	Met	Tyr	His	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Leu	Asp	Ile	Ser	Tyr	Ser	Thr	Ala	Ile	Ala	Pro	Lys
65				70						75					80
Met	Leu	Val	Asp	Phe	Leu	Ala	Ser	Lys	Lys	Ser	Ile	Ser	Phe	Cys	Gly
			85					90						95	
Cys	Ala	Ile	Gln	Met	Phe	Phe	Phe	Ala	Cys	Phe	Ala	Asp	Ala	Glu	Cys
			100					105					110		
Leu	Ile	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Asn
	115					120						125			
Pro	Leu	Leu	Tyr	Ser	Thr	Leu	Val	Ser	Arg	Arg	Val	Cys	Phe	Ser	Leu
	130					135					140				
Val	Val	Leu	Ala	Tyr	Phe	Ser	Gly	Ser	Val	Thr	Ser	Leu	Val	His	Val
145				150						155					160
Ser	Leu	Ala	Phe	Met	Leu	Pro	Tyr	Cys	Arg	Ser	Asn	Ile	Val	Asn	His
			165					170						175	
Phe	Phe	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Ala	Leu	Ser	Cys	Ala	Asp	Thr
			180				185						190		
His	Ile	Asn	Glu	Leu	Leu	Leu	Phe	Ala	Leu	Cys	Gly	Thr	Ile	Gln	Thr
	195						200					205			
Ser	Thr	Phe	Met	Val	Ile	Leu	Ile	Ser	Tyr	Ser	Cys	Ile	Leu	Ile	Thr
	210					215					220				
Val	Leu	Ser	Ile	Lys	Ser	Thr	Gly	Gly	Arg	Ser	Lys	Thr	Phe	Ser	Thr
225				230						235					240
Cys	Ala	Ser	His	Leu	Ile	Ala	Val	Thr	Leu	Phe	Tyr	Gly	Thr	Leu	Leu
			245						250					255	
Phe	Met	Tyr	Leu	Arg	Pro	Thr	Thr	Ser	Tyr	Ser	Pro	Asp	Thr	Asp	Lys
		260					265						270		
Val	Val	Ala	Leu	Phe	Tyr	Thr	Val	Val	Phe	Pro	Met	Leu	Asn	Pro	Ile
		275					280					285			
Ile	Tyr	Ser	Phe	Arg	Asn	Lys	Asp	Val	Lys	Asn	Ala	Leu	Lys	Lys	Leu

290                      295                      300  
Phe Asp Arg Leu Gly Ile Phe Arg  
305                      310

<210> 1844  
<211> 310  
<212> PRT  
<213> Mus musculus

<400> 1844  
Met Glu Asn Ile Thr Glu Val Thr Glu Phe Ile Leu Met Gly Phe Thr  
1                      5                      10                      15  
Asp Asn Ala Asp Leu Glu Ile Leu Ser Phe Phe Leu Phe Leu Ala Ile  
20                      25                      30  
Tyr Leu Phe Thr Leu Met Gly Asn Leu Gly Leu Ile Thr Leu Val Ile  
35                      40                      45  
Gly Asp Ser Arg Leu His Asn Pro Met Tyr Tyr Phe Leu Ser Val Leu  
50                      55                      60  
Ser Ser Val Asp Ala Cys Tyr Ser Thr Val Ile Thr Pro Gln Met Val  
65                      70                      75                      80  
Val Asp Phe Val Ser Glu Lys Lys Val Ile Ser Phe Ile Gly Cys Ala  
85                      90                      95  
Thr Gln Met Phe Leu Ala Val Thr Phe Gly Thr Thr Glu Cys Phe Leu  
100                      105                      110  
Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile His Asn Pro Leu  
115                      120                      125  
Met Tyr Val Val Ser Met Ser Pro Arg Val Tyr Val Pro Leu Ile Ile  
130                      135                      140  
Ala Ser Tyr Ala Gly Gly Ile Leu His Ala Val Ile His Thr Val Ala  
145                      150                      155                      160  
Thr Phe Arg Leu Ser Phe Cys Gly Ser Asn Lys Ile Ser His Ile Phe  
165                      170                      175  
Cys Asp Ile Pro Pro Leu Leu Ala Ile Ser Cys Ser Asp Thr His Phe  
180                      185                      190  
Asn Gln Leu Leu Leu Phe Tyr Cys Ala Gly Phe Ile Glu Val Val Thr  
195                      200                      205  
Ile Leu Ile Val Leu Leu Ser Tyr Gly Phe Ile Leu Ser Val Ile Leu  
210                      215                      220  
Lys Thr Arg Ser Thr Glu Gly Lys Arg Lys Val Phe Ser Thr Cys Gly  
225                      230                      235                      240  
Ser His Leu Met Ala Val Ser Thr Phe His Gly Thr Val Leu Phe Met  
245                      250                      255  
Tyr Val Arg Pro Ser Asp Ser Tyr Ala Leu Glu His Asp Met Met Val  
260                      265                      270  
Ser Ile Phe Tyr Ser Ile Val Ile Pro Met Leu Asn Pro Leu Ile Tyr  
275                      280                      285  
Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Ile Lys Lys Val Phe Gly  
290                      295                      300  
Lys Arg Ile Leu Cys Gly  
305                      310

<210> 1845  
<211> 310  
<212> PRT  
<213> Mus musculus

<400> 1845

Met	Glu	Asn	Val	Thr	Val	Ser	Leu	Phe	Ile	Leu	Arg	Gly	Leu	Thr	Asp
1				5					10					15	
Asn	Ala	Glu	Leu	Gln	Ile	Ser	Leu	Phe	Phe	Leu	Phe	Leu	Met	Ile	Tyr
		20						25					30		
Leu	Phe	Thr	Leu	Met	Gly	Asn	Ile	Gly	Leu	Ile	Ser	Val	Val	Ile	Gly
		35					40					45			
Asp	Ser	Gln	Leu	His	Asn	Pro	Met	Tyr	Tyr	Phe	Leu	Gly	Val	Leu	Ser
	50					55					60				
Phe	Ile	Asp	Thr	Cys	Phe	Ser	Thr	Ile	Ile	Thr	Pro	Lys	Met	Leu	Ile
65					70					75					80
Asp	Phe	Met	Ser	Lys	Arg	Lys	Val	Ile	Ser	Phe	Leu	Gly	Cys	Val	Ala
				85					90					95	
Gln	Met	Phe	Leu	Ala	Val	Ser	Cys	Gly	Thr	Thr	Glu	Cys	Phe	Leu	Leu
			100					105					110		
Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Tyr	Asn	Pro	Leu	Leu
		115					120					125			
Tyr	Ala	Val	Asn	Met	Ser	Pro	Arg	Val	Tyr	Met	Ser	Leu	Ile	Ile	Ala
	130					135					140				
Ser	Asn	Val	Gly	Gly	Ile	Leu	His	Ala	Ser	Ile	His	Thr	Ala	Ala	Thr
145					150					155					160
Ala	Ser	Leu	Ser	Phe	Cys	Asp	Ser	Asn	Glu	Ile	Lys	His	Phe	Phe	Cys
				165					170					175	
Asp	Ile	Pro	Pro	Leu	Leu	Ala	Ile	Ser	Cys	Ser	Asp	Thr	Lys	Met	Asn
			180					185					190		
Glu	Leu	Leu	Leu	Phe	Ile	Phe	Val	Ser	Ser	Ile	Glu	Val	Val	Thr	Ile
		195					200					205			
Leu	Ile	Ile	Ile	Val	Ser	Tyr	Ser	Phe	Ile	Leu	Phe	Ala	Ile	Leu	Lys
	210					215					220				
Met	His	Ser	Ala	Glu	Gly	Arg	Pro	Lys	Val	Phe	Ser	Thr	Cys	Gly	Ser
225					230					235					240
His	Leu	Thr	Gly	Val	Ser	Ile	Tyr	Tyr	Gly	Thr	Ile	Phe	Phe	Met	Tyr
			245						250					255	
Met	Arg	Pro	Ser	Ser	Ser	Tyr	Thr	Leu	Glu	His	Asp	Met	Ile	Val	Ser
			260					265					270		
Thr	Phe	Tyr	Ala	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr	Ser
		275					280					285			
Leu	Arg	Asn	Lys	Asp	Val	Lys	Lys	Ala	Met	Lys	Arg	Leu	Leu	Ala	Lys
	290					295					300				
Val	Phe	Met	Ser	Ile	Arg										
305					310										

<210> 1846

<211> 313

<212> PRT

<213> Mus musculus

<400> 1846

Met	Glu	Lys	Gln	Asn	Leu	Thr	Val	Leu	Ser	Glu	Phe	Ile	Leu	Lys	Gly
1				5					10					15	
Ile	Thr	Asp	Arg	Pro	Glu	Leu	Gln	Ala	Pro	Leu	Phe	Gly	Leu	Leu	Phe
			20					25					30		
Ile	Ile	Tyr	Leu	Ile	Ser	Ala	Val	Gly	Asn	Leu	Gly	Ile	Ile	Ile	Ile
		35					40					45			
Thr	Asn	Val	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Lys

50		55		60	
His	Leu	Ala	Phe	Thr	Asp
65					70
Met	Leu	Val	Asn	Phe	Val
			85		
Cys	Ala	Thr	Gln	Leu	Ala
		100			
Phe	Ile	Leu	Ser	Ser	Met
		115			
Pro	Leu	Leu	Tyr	Thr	Val
	130				
Val	Ala	Val	Pro	Tyr	Ile
145					150
Ile	Arg	Leu	Phe	Thr	Leu
					165
Phe	Phe	Cys	Asp	Cys	Ile
					180
His	Glu	Val	Glu	Val	Ile
					195
Ser	Ser	Leu	Leu	Val	Val
					210
Ile	Leu	Arg	Met	Lys	Ser
225					230
Cys	Gly	Ser	His	Leu	Thr
					245
Phe	Met	Tyr	Val	Gln	Pro
					260
Val	Ser	Ser	Ile	Phe	Tyr
					275
Ile	Tyr	Thr	Leu	Arg	Asn
					290
Trp	Glu	Lys	Ile	Val	Thr
305					310

<210> 1847  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1847	
Met	Pro
1	
Leu	Thr
	20
Val	Ile
	35
Ile	Arg
	50
His	Leu
65	
Met	Leu
	85
Cys	Phe
	100
Tyr	Leu
	115

Asn	Asn
5	
Val	Leu
	25
Thr	Leu
	40
His	Leu
	55
Asp	Ile
	70
Phe	Ile
	85
Gly	Phe
	100
Ala	Ser
	115

Ala	Val
10	
Arg	Ile
	25
Gly	Asn
	40
Thr	Pro
	55
Cys	Tyr
	70
Asp	Gln
	85
Ser	Leu
	100
Met	Ala
	115

Met	Asp
10	
Leu	Phe
	25
Leu	Cys
	40
Tyr	Phe
	55
Ser	Asn
	70
Ile	Ile
	85
Val	Thr
	100
Ala	Val
	115

Phe	Ile
15	
Val	Val
	30
Met	Ile
	45
Thr	Phe
	60
Pro	Asn
	75
Ala	Gly
	90
Val	Thr
	105
Ala	Ile
	120

Pro	Leu	His	Tyr	Ser	Thr	Arg	Met	Ser	Lys	Asn	Val	Cys	Phe	Ser	Leu
130						135					140				
Val	Ser	Phe	Ser	Tyr	Val	Phe	Gly	Phe	Leu	Asn	Gly	Leu	Ser	Gln	Thr
145					150					155					160
Leu	Leu	Thr	Phe	His	Leu	Ser	Phe	Cys	Gly	Ser	His	Glu	Ile	Asn	His
				165					170					175	
Phe	Tyr	Cys	Ala	Asp	Pro	Pro	Leu	Ile	Met	Leu	Ala	Cys	Ser	Asp	Thr
			180					185					190		
His	Val	Lys	Lys	Met	Ala	Met	Phe	Val	Val	Ala	Gly	Phe	Thr	Leu	Ile
	195						200					205			
Ser	Ser	Leu	Ser	Ile	Ile	Leu	Phe	Ser	Tyr	Leu	Tyr	Ile	Phe	Ala	Ala
	210					215					220				
Ile	Met	Arg	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Gln	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Thr	Thr	Val	Thr	Ile	Phe	Tyr	Gly	Thr	Leu	Phe
				245					250					255	
Cys	Met	Tyr	Leu	Lys	Pro	Pro	Ser	Glu	Arg	Ser	Ile	Glu	Glu	Ser	Lys
			260					265					270		
Val	Ile	Ala	Val	Phe	Tyr	Thr	Phe	Leu	Ser	Pro	Phe	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Ile	Asn	Ala	Met	Lys	Gln	Val
	290				295					300					
Ile	Lys	Gly	Asn	Phe	Cys	Gln	Lys	Ile	Leu	Val					
305					310					315					

<210> 1848

<211> 318

<212> PRT

<213> Mus musculus

<400> 1848

Met	Leu	Ala	Pro	Lys	Lys	Met	Val	Arg	Gly	Asn	Tyr	Ser	Met	Val	Thr
1				5					10				15		
Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr	Asp	Arg	Pro	Glu	Leu	Gln	Pro	Leu
			20					25					30		
Leu	Phe	Val	Leu	Phe	Leu	Val	Ile	Tyr	Leu	Ile	Thr	Val	Gly	Gly	Asn
	35					40						45			
Leu	Gly	Met	Met	Val	Leu	Ile	Arg	Ile	Asp	Ser	Arg	Leu	His	Thr	Pro
	50				55					60					
Met	Tyr	Tyr	Phe	Leu	Ala	Ser	Leu	Ser	Cys	Leu	Asp	Leu	Cys	Tyr	Ser
65				70					75					80	
Thr	Asn	Val	Thr	Pro	Lys	Met	Leu	Val	Asn	Phe	Leu	Ser	Glu	Lys	Lys
				85					90					95	
Thr	Ile	Ser	Tyr	Ala	Ala	Cys	Leu	Val	Gln	Cys	Tyr	Phe	Phe	Ile	Ala
			100					105					110		
Met	Val	Ile	Thr	Glu	Tyr	Tyr	Met	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg
	115						120					125			
Tyr	Met	Ala	Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Ser	Lys	Met	Ser	Lys
	130				135						140				
Gly	Val	Cys	Val	Arg	Leu	Ile	Ala	Gly	Pro	Tyr	Ile	Tyr	Gly	Phe	Leu
145					150					155					160
Ser	Gly	Leu	Met	Glu	Thr	Met	Trp	Thr	Tyr	Arg	Leu	Thr	Phe	Cys	Gly
				165					170					175	
Ser	Asn	Ile	Ile	Asn	His	Phe	Tyr	Cys	Ala	Asp	Pro	Pro	Leu	Ile	Arg
			180					185					190		
Leu	Ser	Cys	Ser	Asp	Thr	Phe	Ile	Lys	Glu	Thr	Ser	Met	Phe	Val	Val





Val	Ile	Ala	Val	Phe	Tyr	Thr	Phe	Leu	Ser	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Ile	Asn	Ala	Met	Lys	Gln	Val
	290					295					300				
Val	Lys	Gly	Lys	Leu	Leu	His									
305					310										

<210> 1850  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1850															
Met	Asp	His	Met	Lys	Ile	Asn	Phe	Thr	Val	Thr	Glu	Phe	Val	Phe	Leu
1				5					10					15	
Gly	Leu	Ser	Ser	Asp	Pro	Lys	Val	Gln	Leu	Val	Leu	Phe	Phe	Val	Phe
			20					25					30		
Leu	Phe	Phe	Tyr	Met	Leu	Ser	Val	Val	Gly	Asn	Ile	Ile	Ile	Ile	Thr
		35					40					45			
Ile	Ile	Gln	Ile	Glu	Pro	Arg	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Ala	Asn	Leu	Ser	Phe	Leu	Asp	Ile	Cys	Tyr	Thr	Ser	Thr	Asn	Val	Pro
65					70					75					80
Gln	Met	Leu	Ser	Asn	Met	Val	Gly	Ser	Lys	Lys	Thr	Ile	Pro	Phe	Val
				85					90					95	
Ser	Cys	Ala	Thr	Gln	Met	Tyr	Phe	Ser	Leu	Ser	Phe	Gly	Met	Ile	Glu
			100					105					110		
Cys	Val	Leu	Leu	Gly	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
		115					120					125			
His	Pro	Leu	His	Tyr	Thr	Val	Ile	Met	Asp	Gln	Asn	Thr	Cys	Val	Gln
	130					135					140				
Leu	Ala	Ala	Ile	Ser	Trp	Ser	Ser	Ser	Phe	Leu	Ser	Ser	Met	Val	Ile
145					150					155					160
Asn	Val	Leu	Thr	Leu	Ser	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Val	Leu	Asn
				165					170					175	
His	Phe	Phe	Cys	Glu	Val	Pro	Ser	Val	Leu	Arg	Leu	Ala	Cys	Thr	Asp
		180						185					190		
Thr	Ser	Leu	Thr	Glu	Leu	Val	Val	Phe	Val	Phe	Ser	Ile	Ile	Ile	Val
		195					200						205		
Phe	Ile	Pro	Phe	Leu	Leu	Ile	Ile	Val	Ser	Tyr	Ala	Arg	Ile	Leu	Leu
	210					215					220				
Ser	Val	Leu	Arg	Met	Arg	Ser	Ala	Ser	Gly	Arg	His	Lys	Ala	Leu	Ser
225					230					235					240
Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Thr	Leu	Phe	Tyr	Gly	Thr	Ala
				245					250					255	
Ile	Phe	Met	Tyr	Met	Arg	Pro	Gln	Ser	Lys	Ser	Ser	Arg	Ala	Gly	Gly
		260						265					270		
Lys	Val	Ile	Ala	Val	Phe	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro
		275					280					285			
Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Gln	Asp	Val	Lys	Gly	Ser	Leu	Arg	Arg
	290					295					300				
Ala	Ile	Thr	Lys	Gln	Lys	Thr									
305					310										

<210> 1851

<211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 1851

Met	Asp	Glu	Asp	Asn	Asn	Ser	Thr	Val	His	Gln	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Leu	Thr	Asp	Asp	Pro	Glu	Leu	Glu	Val	Ile	Leu	Phe	Ala	Val	Phe	Leu
		20						25					30		
Val	Ile	Tyr	Leu	Thr	Thr	Val	Leu	Gly	Asn	Leu	Gly	Leu	Ile	Met	Leu
		35				40						45			
Ile	Gln	Val	Ser	Pro	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Cys
	50					55					60				
His	Leu	Ala	Phe	Val	Asp	Phe	Cys	Tyr	Thr	Ser	Ser	Val	Thr	Pro	Asn
65					70					75				80	
Thr	Ile	Ile	Asn	Phe	Leu	Arg	Asp	Ile	Lys	Ser	Ile	Thr	Phe	Tyr	Ala
			85						90					95	
Cys	Ala	Thr	Gln	Val	Cys	Cys	Phe	Ile	Thr	Phe	Ala	Val	Cys	Glu	Met
			100					105					110		
Tyr	Leu	Leu	Ser	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Trp	Asn
		115					120						125		
Pro	Leu	Leu	Tyr	Val	Val	Leu	Met	Pro	Lys	Lys	Leu	Cys	Leu	Arg	Val
	130					135					140				
Ile	Ala	Ser	Thr	Tyr	Ile	Tyr	Gly	Phe	Thr	Val	Gly	Leu	Ala	Gln	Ala
145					150					155				160	
Val	Ala	Thr	Phe	Arg	Leu	Ser	Phe	Cys	Gly	Ser	Asn	Val	Ile	Asn	His
				165					170					175	
Phe	Tyr	Cys	Asp	Asp	Val	Pro	Leu	Val	Ala	Leu	Ala	Cys	Ser	Asp	Thr
			180					185					190		
His	Val	Lys	Glu	Leu	Met	Leu	Leu	Ile	Ile	Ala	Gly	Phe	Asn	Thr	Leu
		195					200					205			
Cys	Ser	Leu	Val	Ile	Val	Val	Ile	Ser	Tyr	Ile	Cys	Ile	Leu	Phe	Ala
	210					215					220				
Ile	Leu	Arg	Ile	His	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr
225					230					235				240	
Cys	Ala	Ser	His	Leu	Thr	Ser	Ile	Thr	Ile	Phe	Tyr	Gly	Thr	Ile	Ile
			245						250					255	
Phe	Met	Tyr	Leu	Gln	Pro	Lys	Ser	Ser	His	Ser	Leu	Asn	Thr	Asp	Lys
			260					265					270		
Phe	Val	Ser	Val	Phe	Tyr	Val	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Asn	Ala	Leu	Lys	Arg	Phe
	290					295					300				
Thr	Glu	Lys	Leu	Ser	Leu	Thr	Ile	His	Asp	Ser	Arg	Lys	Ser	Glu	
305					310					315					

<210> 1852  
 <211> 307  
 <212> PRT  
 <213> Mus musculus

<400> 1852

Met	Leu	Lys	Lys	Asn	Phe	Thr	Thr	Val	Thr	Glu	Phe	Ile	Phe	Leu	Gly
1				5					10					15	
Leu	Thr	Asp	Arg	Ala	Glu	Leu	Gln	Pro	Val	Leu	Phe	Val	Val	Phe	Leu
			20					25					30		

Leu Ile Tyr Leu Ile Thr Val Thr Gly Asn Val Ser Met Ile Phe Leu  
 35 40 45  
 Ile Arg Ser Asp Ser Lys Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 His Leu Ser Phe Val Asp Leu Cys Tyr Ala Thr Val Ala Pro Gln  
 65 70 75 80  
 Met Leu Val Asn Phe Leu Ser Lys Arg Lys Asn Ile Ser Phe Ile Gly  
 85 90 95  
 Cys Ile Ile Gln Phe His Phe Phe Ile Ala Leu Val Ile Thr Asp Tyr  
 100 105 110  
 Tyr Met Leu Ala Val Met Ala Tyr Asp Cys Tyr Val Ala Ile Cys Lys  
 115 120 125  
 Pro Leu Leu Tyr Thr Ser Lys Met Ser Arg Arg Val Cys Leu Ser Leu  
 130 135 140  
 Val Ala Thr Gln Tyr Ile Tyr Gly Phe Val Asn Gly Leu Ile Gln Thr  
 145 150 155 160  
 Ile Leu Met Leu Arg Leu Thr Phe Cys Gly Pro Asn Glu Ile Asn His  
 165 170 175  
 Phe Tyr Cys Ala Asp Pro Pro Leu Met Val Leu Ala Cys Ser Asp Thr  
 180 185 190  
 Tyr Val Lys Lys Thr Ala Met Phe Val Val Ala Gly Ser Asn Leu Thr  
 195 200 205  
 Cys Ser Leu Thr Ile Ile Leu Ile Ser Tyr Ile Phe Ile Phe Thr Ala  
 210 215 220  
 Ile Leu Arg Ile Arg Ser Ala Glu Gly Arg Gln Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Gly Ser His Leu Thr Ala Val Thr Ile Phe Tyr Gly Thr Leu Phe  
 245 250 255  
 Cys Met His Leu Arg Pro Pro Ser Glu Thr Ser Val Glu Gln Gly Lys  
 260 265 270  
 Ile Val Ala Val Phe Tyr Ile Phe Val Ser Pro Met Leu Asn Pro Phe  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asn Ala Ile Arg Lys Val  
 290 295 300  
 Ile Gln Lys  
 305

<210> 1853  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 1853  
 Met Ala Gln Ile Asn Cys Thr Gln Val Thr Glu Phe Ile Leu Val Gly  
 1 5 10 15  
 Leu Thr Asp Arg Lys Glu Leu Lys Met Pro Leu Phe Val Val Phe Leu  
 20 25 30  
 Phe Ile Tyr Leu Phe Thr Ala Ile Gly Asn Leu Gly Leu Ile Leu Val  
 35 40 45  
 Ile Arg Thr Asp Ala Arg Leu Asn Thr Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 Asn Leu Ala Phe Val Asp Phe Cys Tyr Ser Ser Val Ile Thr Pro Lys  
 65 70 75 80  
 Met Leu Gly Asn Phe Leu Tyr Ser Lys Asn Ala Ile Ser Phe Asn Ala  
 85 90 95  
 Cys Ala Ala Gln Leu Gly Cys Phe Leu Thr Phe Met Val Ser Glu Cys



Ile	Ser	Tyr	Phe	Tyr	Cys	Asp	Cys	Val	Pro	Leu	Ile	Ser	Leu	Leu	Cys
			180					185					190		
Ser	Asp	Thr	His	Glu	Leu	Glu	Leu	Ile	Ile	Leu	Ile	Phe	Ser	Gly	Cys
		195					200					205			
Asn	Leu	Leu	Ser	Ser	Leu	Leu	Ile	Val	Leu	Val	Ser	Tyr	Met	Phe	Ile
	210					215					220				
Phe	Val	Ala	Ile	Leu	Arg	Met	Asn	Ser	Lys	Glu	Gly	Arg	Ser	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Thr	Val	Val	Val	Val	Phe	Tyr	Gly
			245					250						255	
Thr	Leu	Leu	Phe	Ile	Tyr	Leu	Gln	Pro	Lys	Ser	Ser	His	Thr	Phe	Glu
			260					265					270		
Ile	Asp	Lys	Met	Ala	Ser	Val	Phe	Tyr	Thr	Leu	Val	Ile	Pro	Met	Leu
	275						280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Glu	Ala	Leu
	290					295					300				
Lys	Arg	Thr	Leu	Thr	Gln	Gly	Leu	Arg	Ile	His	Thr				
305					310					315					

<210> 1855  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1855

Met	Val	Arg	Thr	Met	Lys	Gly	Ile	Gln	Asp	Lys	Asn	Ala	Thr	Glu	Val
1				5				10					15		
Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Ser	Glu	Asn	Pro	Asp	Leu	Gln	Gly
			20				25					30			
Val	Leu	Phe	Ala	Leu	Phe	Leu	Ile	Ile	Tyr	Thr	Met	Thr	Leu	Val	Gly
		35				40					45				
Asn	Leu	Gly	Met	Met	Ala	Leu	Ile	Lys	Ile	Asp	Arg	Ser	Leu	His	Thr
	50				55					60					
Pro	Met	Tyr	Phe	Phe	Leu	Ser	Ser	Leu	Ser	Phe	Val	Asp	Ala	Ser	Ser
65				70				75						80	
Ser	Ser	Thr	Val	Thr	Pro	Lys	Met	Leu	Leu	Asn	Leu	Val	Ala	Glu	Asp
			85					90				95			
Lys	Ser	Ile	Ser	Phe	Asn	Gly	Cys	Ala	Thr	Gln	Phe	Phe	Phe	Phe	Gly
		100				105						110			
Ser	Phe	Leu	Gly	Thr	Glu	Cys	Phe	Leu	Leu	Ala	Met	Met	Ala	Tyr	Asp
	115					120					125				
Arg	Tyr	Ala	Ala	Ile	Trp	Asn	Pro	Leu	Leu	Tyr	Pro	Val	Leu	Met	Ser
	130				135					140					
Gly	Ser	Ile	Cys	Phe	Met	Leu	Val	Ser	Thr	Ser	Phe	Leu	Ala	Gly	Phe
145				150				155						160	
Gly	Asn	Ala	Ala	Ile	His	Thr	Gly	Met	Thr	Phe	Arg	Leu	Ser	Phe	Cys
			165					170						175	
Gly	Ser	Asn	Lys	Ile	Asn	His	Phe	Tyr	Cys	Asp	Thr	Pro	Pro	Leu	Leu
		180				185						190			
Lys	Leu	Ser	Cys	Ser	Asp	Ile	His	Ile	Asn	Gly	Ile	Val	Ile	Met	Ala
	195					200					205				
Phe	Ser	Ser	Phe	Thr	Val	Leu	Ile	Cys	Val	Leu	Ile	Val	Leu	Ile	Ser
	210					215					220				
Tyr	Leu	Cys	Ile	Leu	Ile	Ala	Ile	Leu	Lys	Met	Pro	Ser	Ala	Glu	Gly
225				230				235						240	
Arg	His	Lys	Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Met	Ala	Val	Thr

				245					250				255			
Ile	Phe	Phe	Gly	Ser	Ile	Leu	Phe	Met	Tyr	Leu	Arg	Pro	Thr	Thr	Ser	
			260					265					270			
Tyr	Ser	Met	Glu	Gln	Asp	Lys	Ile	Val	Ser	Val	Phe	Tyr	Thr	Val	Val	
		275					280					285				
Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Lys	Asn	Arg	Asp	Val	
	290					295					300					
Lys	Glu	Ala	Val	Lys	Lys	Ile	Leu	Gln	Lys	His	Ile	Leu				
305					310					315						

<210> 1856  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1856

Met	Val	Arg	Ser	Gly	Lys	Gly	Ile	Gln	Asn	Lys	Asn	Ala	Thr	Glu	Val	
1				5				10					15			
Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Ser	Asp	Asn	Pro	Asp	Leu	Gln	Gly	
		20					25					30				
Val	Leu	Phe	Ala	Leu	Phe	Leu	Ile	Tyr	Thr	Met	Thr	Leu	Val	Gly		
	35					40					45					
Asn	Leu	Gly	Met	Met	Ala	Leu	Ile	Lys	Ile	Asp	Arg	Ser	Leu	His	Thr	
	50				55					60						
Pro	Met	Tyr	Phe	Phe	Leu	Ser	Ser	Leu	Ser	Phe	Val	Asp	Ala	Ser	Tyr	
65				70					75					80		
Ser	Ser	Ser	Val	Thr	Pro	Lys	Met	Leu	Val	Asn	Leu	Met	Ala	Glu	Asp	
			85					90						95		
Lys	Ser	Ile	Ser	Phe	Asn	Gly	Cys	Ala	Thr	Gln	Phe	Phe	Phe	Phe	Gly	
		100				105						110				
Ser	Phe	Leu	Gly	Thr	Glu	Cys	Phe	Leu	Leu	Ala	Met	Met	Ala	Tyr	Asp	
	115					120					125					
Arg	Tyr	Ala	Ala	Ile	Trp	Asn	Pro	Leu	Leu	Tyr	Pro	Val	Leu	Met	Ser	
	130				135						140					
Gly	Arg	Ile	Cys	Phe	Met	Leu	Val	Ser	Thr	Ser	Phe	Leu	Ala	Gly	Phe	
145			150						155					160		
Gly	Asn	Ala	Ala	Ile	His	Thr	Gly	Met	Thr	Phe	Arg	Leu	Ser	Phe	Cys	
		165				170							175			
Gly	Ser	Asn	Lys	Ile	Asn	His	Phe	Tyr	Cys	Asp	Thr	Pro	Pro	Leu	Leu	
	180				185							190				
Lys	Leu	Ser	Cys	Ser	Asp	Thr	His	Ile	Asn	Gly	Ile	Val	Ile	Met	Ala	
	195				200						205					
Phe	Ser	Ser	Phe	Asn	Val	Ile	Ser	Cys	Val	Leu	Ile	Val	Leu	Ile	Ser	
	210				215					220						
Tyr	Leu	Cys	Ile	Leu	Ile	Ala	Ile	Leu	Lys	Met	Pro	Ser	Ala	Glu	Gly	
225			230						235					240		
Arg	His	Lys	Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Met	Ala	Val	Thr	
		245				250							255			
Ile	Phe	Phe	Gly	Thr	Ile	Leu	Phe	Met	Tyr	Leu	Arg	Pro	Thr	Ser	Ser	
	260					265						270				
Tyr	Ser	Met	Glu	Gln	Asp	Lys	Val	Val	Ser	Val	Phe	Tyr	Thr	Val	Val	
	275					280					285					
Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Lys	Asn	Lys	Asp	Val	
	290				295					300						
Lys	Lys	Ala	Val	Lys	Lys	Ile	Leu	His	Asn	Tyr	Val	Val				
305					310				315							

<210> 1857  
 <211> 310  
 <212> PRT  
 <213> Mus, musculus

<400> 1857

Met	Leu	Asn	Phe	Thr	Asp	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Ser	Arg	Lys	Glu	Leu	Gln	Val	Leu	Phe	Phe	Val	Ile	Phe	Leu	Met	Val
			20					25					30		
Tyr	Ile	Val	Thr	Met	Val	Gly	Asn	Ile	Gly	Met	Met	Ile	Leu	Ile	Lys
		35					40					45			
Ile	Ser	Pro	Gln	Leu	Ser	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His	Leu
	50					55					60				
Ser	Phe	Val	Asp	Val	Trp	Phe	Ser	Ser	Asn	Val	Thr	Pro	Lys	Met	Leu
65					70				75						80
Glu	Asn	Leu	Leu	Ser	Lys	Thr	Lys	Thr	Ile	Ser	Tyr	Ala	Gly	Cys	Leu
				85					90					95	
Val	Gln	Cys	Phe	Phe	Phe	Ile	Ala	Leu	Val	His	Val	Glu	Ile	Phe	Ile
			100					105					110		
Leu	Ala	Val	Met	Ala	Phe	Asp	Arg	Tyr	Met	Ala	Ile	Gly	Lys	Pro	Leu
	115						120					125			
Leu	Tyr	Gly	Ser	Lys	Met	Ser	Arg	Val	Val	Cys	Ile	Arg	Leu	Ile	Ser
	130					135					140				
Phe	Pro	Tyr	Ile	Tyr	Gly	Phe	Leu	Thr	Ser	Leu	Ala	Ala	Thr	Leu	Trp
145					150					155					160
Thr	Tyr	Gly	Leu	Tyr	Phe	Cys	Gly	Lys	Thr	Glu	Ile	Asn	His	Phe	Tyr
				165					170					175	
Cys	Ala	Asp	Pro	Pro	Leu	Ile	Lys	Met	Ala	Cys	Ala	Gly	Thr	Phe	Val
			180					185					190		
Lys	Glu	Tyr	Thr	Met	Ile	Ile	Leu	Ala	Gly	Ile	Asn	Phe	Thr	Tyr	Ser
	195						200					205			
Leu	Ser	Val	Val	Ile	Ile	Ser	Tyr	Leu	Phe	Ile	Leu	Ile	Ala	Ile	Leu
	210					215					220				
Arg	Met	Arg	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Gly
225					230					235					240
Ser	His	Leu	Thr	Ala	Val	Val	Ile	Phe	Tyr	Gly	Thr	Leu	Ile	Phe	Met
				245					250					255	
Tyr	Leu	Arg	Arg	Pro	Thr	Glu	Glu	Ser	Val	Glu	Lys	Gly	Lys	Met	Val
				260				265					270		
Ala	Val	Phe	Tyr	Thr	Thr	Val	Ile	Pro	Met	Leu	Asn	Pro	Met	Ile	Tyr
		275					280					285			
Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Met	Asp	Lys	Val	Ile	Ser
	290					295					300				
Arg	Lys	Gly	Leu	Thr	Lys										
305					310										

<210> 1858  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1858

Met Leu Asn Phe Thr Asp Val Thr Glu Phe Val Leu Leu Gly Leu Thr





Ala	Leu	Val	Asn	Phe	Leu	Arg	Glu	Ile	Lys	Ser	Ile	Ser	Phe	Tyr	Gly
			85						90					95	
Cys	Ala	Ala	Gln	Val	Cys	Phe	Phe	Thr	Thr	Phe	Ser	Val	Cys	Glu	Val
			100					105					110		
Phe	Leu	Leu	Ser	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
			115				120					125			
Pro	Leu	Leu	Tyr	Val	Ile	Leu	Met	Pro	Arg	Arg	Leu	Cys	Ile	Gln	Ile
			130			135					140				
Ala	Ile	Thr	Thr	Tyr	Ile	Tyr	Ala	Phe	Val	Thr	Ala	Leu	Ile	Gln	Thr
145					150					155					160
Val	Thr	Thr	Phe	Ile	Leu	Ser	Phe	Cys	Asp	Ser	Asn	Leu	Val	Asn	His
			165						170					175	
Phe	Phe	Cys	Glu	Asp	Ile	Pro	Leu	Met	Ala	Leu	Ala	Cys	Ser	Asn	Thr
			180					185				190			
Gln	Val	Lys	Glu	Leu	Leu	Leu	Leu	Ser	Met	Ala	Gly	Phe	Asn	Val	Cys
		195				200					205				
Cys	Ser	Leu	Leu	Ile	Val	Leu	Ile	Ser	Tyr	Leu	Phe	Ile	Val	Ser	Ala
		210				215				220					
Ile	Leu	Lys	Lys	His	Ser	Gly	Glu	Gly	Arg	Gln	Lys	Val	Phe	Ser	Thr
225				230					235						240
Cys	Ala	Ser	His	Leu	Ser	Ser	Ile	Ala	Ile	Tyr	Tyr	Gly	Thr	Ile	Ile
			245					250						255	
Phe	Met	Tyr	Leu	Gln	Pro	Glu	Ser	Ser	His	Ser	Leu	Asn	Thr	Asp	Lys
			260				265					270			
Phe	Ala	Ala	Val	Phe	Tyr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	
			275				280				285				
Ile	Tyr	Ser	Leu	Arg	Asn	Thr	Glu	Val	Lys	Asn	Ala	Leu	Lys	Lys	Ser
	290				295					300					
Ile	Asp	Asn	Ile	Pro	Ile	Asn	Ile	Ser	Lys						
305					310										

<210> 1860  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1860															
Met	Met	Asp	Asn	Leu	Ser	Ser	Ala	Thr	Glu	Phe	Cys	Leu	Leu	Gly	Phe
1				5					10					15	
Pro	Gly	Ser	Gln	Glu	Leu	His	Tyr	Ile	Leu	Phe	Ala	Ile	Phe	Phe	Phe
			20					25					30		
Phe	Tyr	Ser	Val	Thr	Leu	Leu	Gly	Asn	Met	Val	Ile	Ile	Ile	Ile	Val
		35					40					45			
Cys	Val	Asp	Lys	Arg	Leu	Gln	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Asn
	50					55				60					
Leu	Ser	Leu	Leu	Glu	Ile	Leu	Val	Thr	Thr	Thr	Ile	Val	Pro	Leu	Met
65					70				75					80	
Leu	Trp	Gly	Leu	Leu	Leu	Pro	Gly	Lys	Gln	Thr	Ile	Ser	Leu	Asn	Gly
			85					90					95		
Cys	Ile	Ala	Gln	Leu	Phe	Leu	Tyr	Leu	Ala	Leu	Gly	Thr	Thr	Glu	Phe
		100						105					110		
Ala	Val	Leu	Gly	Ala	Met	Ala	Val	Asp	Arg	Tyr	Val	Ala	Val	Cys	Asn
		115					120					125			
Pro	Leu	Arg	Tyr	Ser	Val	Ile	Met	Asn	Ser	Arg	Thr	Cys	Ile	Trp	Val
	130					135					140				
Val	Met	Val	Ser	Trp	Met	Phe	Gly	Phe	Leu	Ser	Glu	Ile	Trp	Pro	Val

145					150					155				160	
Tyr	Ala	Thr	Phe	Gln	Phe	Thr	Phe	Cys	Lys	Ser	Asn	Leu	Leu	Asp	His
				165					170					175	
Phe	Tyr	Cys	Asp	Arg	Gly	Gln	Leu	Leu	Lys	Leu	Ser	Cys	Asn	Glu	Thr
			180						185				190		
Phe	Leu	Thr	Glu	Phe	Ile	Leu	Phe	Ile	Met	Ala	Ile	Phe	Ile	Ile	Val
		195					200					205			
Gly	Ser	Leu	Ile	Pro	Thr	Ile	Val	Ser	Tyr	Thr	Tyr	Ile	Ile	Ser	Thr
	210					215					220				
Ile	Leu	Lys	Ile	Pro	Ser	Ala	Ser	Gly	Arg	Lys	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Phe	Thr	Phe	Val	Val	Ile	Gly	Tyr	Gly	Thr	Cys	Leu
			245						250					255	
Phe	Leu	Tyr	Val	Lys	Pro	Lys	Gln	Thr	Gln	Ala	Ala	Glu	Tyr	Asn	Arg
			260					265					270		
Val	Ala	Ser	Leu	Leu	Val	Ser	Val	Val	Thr	Pro	Phe	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Phe	Thr	Leu	Arg	Asn	Asp	Lys	Val	Lys	Glu	Ala	Leu	Arg	Asp	Gly
	290				295						300				
Val	Lys	Arg	Cys	Cys	Leu	Leu	Leu	Arg	Asp						
305					310										

<210> 1861  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1861

Met	Ser	Leu	Met	Glu	Asn	Asn	Thr	Lys	Val	Thr	Glu	Phe	Leu	Leu	Leu
1				5				10					15		
Gly	Leu	Thr	Asn	Asp	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Leu	Ile	Phe
			20					25				30			
Leu	Leu	Ile	Tyr	Thr	Ile	Thr	Leu	Val	Gly	Asn	Leu	Gly	Leu	Ile	Leu
		35				40					45				
Leu	Ile	Val	Leu	Asp	Ser	Cys	Leu	His	Thr	Pro	Met	Tyr	Ile	Phe	Leu
	50				55					60					
Gly	Asn	Leu	Ser	Leu	Val	Asp	Phe	Cys	Tyr	Ser	Ser	Ala	Val	Thr	Pro
65				70					75						80
Ser	Val	Met	Thr	Glu	Leu	Leu	Ile	Gly	Lys	Lys	Val	Ile	Ser	Tyr	Asn
			85					90					95		
Asp	Cys	Ala	Ala	Gln	Thr	Phe	Phe	Phe	Val	Ala	Phe	Cys	Thr	Val	Glu
		100					105					110			
Asn	Tyr	Leu	Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Val	Cys
		115				120						125			
Lys	Pro	Leu	His	Tyr	Ala	Ser	Thr	Met	Thr	Thr	Arg	Val	Cys	Ile	Tyr
	130					135				140					
Leu	Ser	Ile	Gly	Ser	Tyr	Val	Cys	Gly	Phe	Leu	Asn	Ala	Ser	Ile	Asn
145					150					155					160
Thr	Gly	Asn	Thr	Phe	Ser	Leu	Phe	Phe	Cys	Arg	Tyr	Asn	Met	Ile	His
			165					170					175		
His	Phe	Phe	Cys	Asp	Ile	Pro	Ala	Val	Met	Val	Leu	Ser	Cys	Ser	Asp
		180					185					190			
Arg	Tyr	Phe	Ser	Glu	Leu	Leu	Leu	Val	Tyr	Val	Val	Ser	Phe	Ser	Ile
		195				200					205				
Phe	Phe	Ala	Leu	Leu	Val	Ile	Cys	Ile	Ser	Tyr	Ile	Phe	Ile	Phe	Ile
	210					215					220				

Thr	Ile	Ala	Lys	Met	His	Ser	Ser	Ala	Gly	Tyr	Gly	Lys	Ala	Ala	Pro
225					230					235					240
Thr	Cys	Ala	Ser	His	Phe	Thr	Ala	Val	Ser	Ile	Phe	Tyr	Gly	Thr	Val
				245					250					255	
Ile	Phe	Met	Tyr	Leu	Leu	Pro	Ser	Ser	Ser	His	Ser	Met	Asp	Thr	Asp
			260					265					270		
Gln	Ile	Ala	Ser	Val	Phe	Tyr	Thr	Met	Ile	Ile	Pro	Met	Leu	Asn	Pro
		275					280					285			
Leu	Val	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Ser	Ala	Phe	Thr	Lys
	290					295					300				
Ile	Phe	Gln	Val	Ala	Lys	Gln	Ser	Val	Met	Leu	Tyr	Phe			
305					310					315					

<210> 1862  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 1862

Met	Met	His	Arg	Asn	Gln	Thr	Val	Val	Thr	Glu	Phe	Phe	Phe	Thr	Gly
1				5					10					15	
Leu	Thr	Ser	Ser	Phe	His	Leu	Gln	Ile	Val	Leu	Phe	Leu	Thr	Phe	Leu
			20					25					30		
Cys	Val	Tyr	Leu	Ala	Thr	Leu	Leu	Gly	Asn	Leu	Gly	Met	Ile	Ile	Leu
		35					40					45			
Ile	His	Leu	Asp	Thr	Arg	Leu	His	Ile	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
His	Leu	Ser	Phe	Val	Asp	Ala	Cys	Ser	Ser	Ser	Val	Ile	Ser	Pro	Lys
65					70					75					80
Met	Leu	Ser	Asp	Met	Phe	Val	Asp	Lys	Lys	Val	Ile	Ser	Phe	Leu	Gly
			85						90					95	
Cys	Ala	Ile	Gln	Leu	Cys	Leu	Phe	Ser	Gln	Phe	Val	Val	Thr	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
	115					120						125			
Pro	Leu	Leu	Tyr	Thr	Leu	Ile	Met	Ser	Gln	Arg	Val	Cys	Val	Gln	Leu
	130				135						140				
Val	Ile	Gly	Pro	Tyr	Ser	Ile	Gly	Phe	Ile	Ser	Thr	Met	Val	His	Ile
145					150					155					160
Ile	Ser	Ala	Phe	Val	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Leu	Ile	Asn	His
			165						170					175	
Phe	Phe	Cys	Asp	Leu	Leu	Pro	Val	Leu	Ser	Leu	Ala	Cys	Ala	Asn	Thr
		180						185					190		
Gln	Met	Asn	Lys	Arg	Leu	Leu	Phe	Ile	Val	Ala	Gly	Ile	Leu	Gly	Val
		195					200					205			
Phe	Ser	Gly	Ile	Ile	Ile	Leu	Val	Ser	Tyr	Val	Tyr	Ile	Ala	Ile	Thr
	210					215					220				
Ile	Leu	Lys	Ile	Ser	Ser	Ala	Asp	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr
225				230					235						240
Cys	Ser	Ser	His	Leu	Thr	Ala	Val	Ser	Ile	Leu	Tyr	Gly	Thr	Leu	Phe
			245						250					255	
Phe	Ile	Tyr	Val	Arg	Pro	Ser	Ser	Ser	Phe	Ser	Leu	Asp	Ile	Asn	Lys
		260					265						270		
Val	Val	Ser	Leu	Phe	Tyr	Thr	Thr	Val	Ile	Pro	Met	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Asp	Ala	Leu	Ile	Arg	Thr

290		295		300
Phe Glu Lys Gln Phe Cys Tyr Ser Leu Gln Asp Lys Ile Leu				
305		310		315

<210> 1863  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 1863

Met Met His Arg Asn Gln Thr Val Val Thr Glu Phe Phe Phe Thr Gly																
1				5				10						15		
Leu Thr Ser Ser Phe His Leu Gln Ile Val Leu Phe Leu Thr Phe Leu																
			20				25						30			
Cys Val Tyr Leu Ala Thr Leu Leu Gly Asn Leu Gly Met Ile Ile Leu							40					45				
			35													
Ile His Gln Asp Thr Arg Leu His Ile Pro Met Tyr Phe Phe Leu Ser							55				60					
			50													
His Leu Ser Phe Val Asp Ala Cys Ser Ser Ser Val Ile Ser Pro Lys							70				75					80
65																
Met Leu Ser Asp Ile Phe Val Asp Lys Lys Val Ile Ser Phe Leu Gly																
			85					90								95
Cys Ala Ile Gln Phe Cys Leu Phe Ser Gln Phe Val Val Thr Glu Cys																
			100				105							110		
Phe Leu Leu Ala Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys																
			115				120						125			
Pro Leu Leu Tyr Thr Leu Ile Met Ser Gln Arg Val Cys Val Gln Leu							135					140				
			130													
Val Ile Gly Pro Tyr Ser Ile Gly Leu Ile Ser Thr Val Val His Thr							150				155					160
145																
Thr Ser Ala Phe Ile Leu Pro Tyr Cys Gly Pro Asn Leu Ile Asn His																
			165								170					175
Phe Phe Cys Asp Leu Leu Pro Val Leu Ser Leu Ala Cys Ala Asp Thr																
			180				185							190		
Gln Met Asn Lys His Leu Leu Phe Ile Met Ala Gly Ile Leu Gly Val							200					205				
			195													
Phe Ser Gly Ile Ile Ile Leu Val Ser Tyr Val Tyr Ile Thr Ile Thr							215				220					
			210													
Ile Leu Lys Ile Asn Ser Ala Asp Gly Arg Arg Lys Ala Phe Ser Thr																
225						230				235						240
Cys Ser Ser His Leu Thr Ala Val Ser Ile Leu Tyr Gly Thr Leu Phe																
			245							250						255
Phe Ile Tyr Val Arg Pro Ser Ser Ser Phe Ser Leu Asp Ile Asn Lys																
			260				265							270		
Val Val Ser Leu Phe Tyr Thr Ala Val Ile Pro Met Leu Asn Pro Phe																
			275				280							285		
Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Asp Ala Leu Ile Arg Thr																
			290			295						300				
Phe Glu Lys Lys Phe Cys Tyr Ser Leu Gln Asp Lys Ile Leu																
305					310							315				

<210> 1864  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1864

Met	Ala	Asp	Glu	Asn	Tyr	Thr	Arg	Ile	Thr	Glu	Phe	Ile	Phe	Ile	Gly
1				5					10					15	
Leu	Arg	Tyr	His	Pro	Asn	Leu	Gln	Val	Phe	Leu	Phe	Leu	Leu	Phe	Leu
		20					25					30			
Leu	Phe	Tyr	Leu	Val	Thr	Met	Thr	Gly	Asn	Leu	Gly	Met	Ile	Ile	Leu
	35					40					45				
Ile	Arg	Val	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
His	Leu	Ser	Phe	Val	Asp	Ile	Cys	Phe	Ser	Ser	Val	Val	Ala	Pro	Lys
65					70					75					80
Met	Leu	Thr	Asp	Phe	Phe	Ala	Asp	Lys	Lys	Ala	Ile	Ser	Phe	Leu	Gly
			85						90					95	
Cys	Val	Leu	Gln	Gln	Trp	Phe	Phe	Gly	Phe	Phe	Val	Ala	Ile	Glu	Cys
			100					105					110		
Leu	Leu	Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
		115					120					125			
Pro	Leu	Leu	Tyr	Ser	Val	Ala	Met	Ser	Gln	Arg	Leu	Cys	Ile	Gln	Leu
	130					135						140			
Val	Ile	Gly	Pro	Tyr	Ala	Val	Gly	Phe	Phe	Asn	Thr	Met	Thr	His	Thr
145					150					155					160
Thr	Ala	Ala	Phe	Arg	Leu	Pro	Phe	Cys	Gly	Ser	Asn	Ile	Ile	Asn	His
			165						170					175	
Phe	Phe	Cys	Asp	Met	Ser	Pro	Ile	Leu	Ser	Leu	Ile	Cys	Ala	Asp	Ile
			180					185					190		
Arg	Ile	Asn	Lys	Leu	Leu	Val	Phe	Ile	Val	Ala	Gly	Ala	Val	Leu	Ile
		195					200					205			
Val	Ser	Ser	Thr	Thr	Ile	Ile	Val	Ser	Tyr	Phe	His	Ile	Leu	Ile	Ala
	210				215						220				
Ile	Leu	Arg	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Val	Thr	Ala	Val	Ser	Ile	Leu	Tyr	Gly	Thr	Leu	Phe
			245						250					255	
Phe	Ile	Tyr	Val	Arg	Pro	Ser	Ala	Ile	Ser	Ser	Leu	Asp	Leu	Asn	Lys
		260						265					270		
Val	Val	Ser	Val	Phe	Tyr	Thr	Ala	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Ser	Ala	Met	Gly	Arg	Thr
	290				295						300				
Val	Ala	Lys	Ala	Lys	Val	Phe	Leu	Lys	Asn						
305					310										

<210> 1865

<211> 312

<212> PRT

<213> Mus musculus

<400> 1865

Met	Asp	Val	Asp	Asn	Arg	Thr	Ile	Leu	Thr	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Ala	Asp	Pro	His	Trp	Gln	Leu	Ile	Leu	Phe	Gly	Ile	Phe	Leu
		20					25					30			
Thr	Ile	Tyr	Leu	Met	Thr	Leu	Leu	Gly	Asn	Met	Thr	Leu	Ile	Ile	Leu
	35					40					45				
Ile	Arg	Ile	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Gly

50		55		60											
Gly	Leu	Ser	Phe	Leu	Asp	Phe	Trp	Tyr	Asn	Ser	Val	Tyr	Ile	Pro	Lys
65					70					75					80
Ile	Leu	Val	Asn	Cys	Val	Ser	Glu	Asp	Lys	Arg	Ile	Ser	Leu	Ala	Gly
			85						90					95	
Cys	Gly	Ala	Gln	Phe	Phe	Ser	Cys	Val	Ala	Ala	Tyr	Thr	Glu	Cys	
		100					105					110			
Tyr	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	His	Ala	Ala	Ile	Cys	Ser
		115					120					125			
Pro	Leu	Leu	Tyr	Ser	Ser	Ile	Met	Ser	Thr	Ser	Leu	Cys	Ala	Gly	Leu
	130					135					140				
Val	Gly	Ala	Ser	Tyr	Val	Gly	Gly	Phe	Leu	Asn	Ala	Ile	Ala	His	Thr
145					150					155					160
Ala	Asn	Thr	Phe	Arg	Leu	Arg	Phe	Cys	Gly	Lys	Asn	Ile	Ile	Asp	His
			165						170					175	
Phe	Phe	Cys	Asp	Val	Leu	Pro	Leu	Val	Lys	Met	Ser	Cys	Thr	Asp	Thr
		180						185				190			
Arg	Val	Tyr	Val	Lys	Ile	Leu	Ser	Ser	Met	Val	Gly	Phe	Thr	Val	Leu
	195					200						205			
Ser	Ser	Ile	Leu	Ala	Ile	Leu	Ile	Ser	Tyr	Leu	Asn	Ile	Leu	Leu	Ala
	210					215					220				
Ile	Leu	Arg	Ile	Arg	Ser	Ala	Ser	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Val	Ser	Val	Thr	Leu	Phe	Tyr	Gly	Ser	Leu	Leu
			245						250				255		
Phe	Met	Tyr	Ser	Arg	Pro	Ser	Ser	Asn	Tyr	Ser	Leu	Glu	Arg	Asp	Lys
		260						265				270			
Val	Ala	Ala	Met	Phe	Tyr	Ile	Ile	Ile	Asn	Pro	Leu	Leu	Asn	Pro	Phe
	275					280						285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Phe	Lys	Lys	Leu
	290					295					300				
Met	Gln	Thr	Ile	Lys	Gln	Gln	Thr								
305						310									

<210> 1866  
 <211> 320  
 <212> PRT  
 <213> Mus musculus

<400> 1866

Met	Thr	Arg	Phe	Ser	Ser	Val	Asp	Met	Glu	Leu	Asp	Asn	Arg	Thr	Ile
1				5					10					15	
Leu	Thr	Glu	Phe	Ile	Leu	Val	Gly	Phe	Ser	Ala	Asp	Pro	His	Trp	Gln
		20						25					30		
Leu	Thr	Leu	Phe	Gly	Ile	Phe	Leu	Thr	Ile	Tyr	Leu	Leu	Thr	Leu	Ser
		35					40					45			
Gly	Asn	Met	Leu	Leu	Val	Val	Leu	Ile	Arg	Ile	Asn	Ser	Arg	Leu	His
	50					55					60				
Thr	Pro	Met	Tyr	Phe	Phe	Ile	Ser	Asn	Leu	Ser	Phe	Leu	Asp	Phe	Trp
65					70					75					80
Tyr	Thr	Ser	Val	Tyr	Thr	Pro	Lys	Ile	Leu	Ala	Thr	Cys	Ile	Ser	Glu
			85						90				95		
Asp	Lys	Arg	Ile	Ser	Leu	Ala	Gly	Cys	Gly	Ala	Gln	Leu	Phe	Phe	Ser
		100						105					110		
Cys	Val	Val	Ala	Tyr	Thr	Glu	Cys	Tyr	Leu	Leu	Ala	Ala	Met	Ala	Tyr
		115					120					125			

Asp	Arg	His	Ser	Ala	Ile	Cys	Ser	Pro	Leu	Ile	Tyr	Ser	Ser	Ile	Met
130						135					140				
Ser	Ser	Ser	Leu	Cys	Thr	Gly	Leu	Val	Ala	Gly	Cys	Tyr	Ile	Gly	Gly
145					150					155					160
Val	Leu	Asn	Ala	Ile	Ala	His	Thr	Ala	Asn	Thr	Phe	Arg	Leu	Thr	Phe
				165					170					175	
Cys	Gly	Lys	Asn	Ile	Ile	Asp	His	Phe	Phe	Cys	Asp	Ala	Pro	Pro	Leu
			180					185					190		
Val	Lys	Met	Ser	Cys	Thr	Asp	Thr	Arg	Val	Tyr	Glu	Lys	Val	Leu	Leu
		195					200					205			
Gly	Val	Val	Gly	Phe	Thr	Val	Leu	Ser	Ser	Ile	Leu	Ala	Ile	Leu	Ile
	210					215					220				
Ser	Tyr	Phe	Asn	Ile	Leu	Leu	Ala	Ile	Leu	Arg	Ile	Arg	Ser	Ala	Ser
225					230					235					240
Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Val	Ser	Val
				245					250					255	
Met	Leu	Phe	Tyr	Gly	Ser	Leu	Leu	Phe	Met	Tyr	Ser	Arg	Pro	Ser	Ser
			260					265					270		
Thr	Tyr	Ser	Leu	Glu	Lys	Asp	Lys	Val	Ala	Ala	Leu	Phe	Tyr	Thr	Val
		275					280					285			
Val	Asn	Pro	Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp
	290					295					300				
Val	Lys	Asp	Ala	Phe	Arg	Lys	Ala	Thr	Gln	Thr	Ile	Arg	Pro	His	Thr
305					310					315					320

<210> 1867  
 <211> 305  
 <212> PRT  
 <213> Mus musculus

<400> 1867

Met	Glu	Gln	Tyr	Asn	Asp	Thr	Val	Thr	Glu	Phe	Ile	Leu	Val	Gly	Phe
1				5					10					15	
Thr	Thr	Asn	Pro	Val	Met	Gln	Leu	Val	Leu	Phe	Val	Ile	Phe	Leu	Ala
			20					25					30		
Val	Tyr	Ala	Leu	Thr	Val	Leu	Gly	Asn	Ser	Thr	Leu	Ile	Val	Leu	Ile
		35				40					45				
Cys	Asn	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Gly	Asn
	50					55				60					
Leu	Ser	Phe	Leu	Asp	Leu	Gly	Leu	Ser	Thr	Val	Tyr	Thr	Pro	Lys	Ile
65					70					75					80
Leu	Val	Thr	Cys	Ile	Ser	Glu	Asp	Lys	Ser	Ile	Ser	Phe	Ser	Gly	Cys
			85					90						95	
Val	Ala	Gln	Phe	Phe	Phe	Ser	Ala	Gly	Leu	Gly	Tyr	Thr	Glu	Cys	Tyr
			100					105					110		
Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Ser	Lys	Pro
		115					120					125			
Leu	Leu	Tyr	Ser	Gln	Ala	Met	Ser	Leu	Lys	Leu	Cys	Ala	Phe	Leu	Val
	130					135					140				
Gly	Val	Ser	Tyr	Leu	Gly	Gly	Leu	Ile	Asn	Ser	Phe	Ile	Ile	Thr	Lys
145					150					155					160
Asp	Thr	Phe	Ala	Leu	Thr	Phe	Cys	Asn	Asp	Asn	Val	Ile	Asp	Asp	Phe
			165						170					175	
Phe	Cys	Asp	Ile	Pro	Pro	Leu	Val	Lys	Leu	Ala	Cys	Gly	Lys	Lys	Lys
		180						185				190			
Ser	Phe	Gln	Ser	Val	Leu	Phe	Phe	Leu	Leu	Thr	Ser	Asn	Val	Ile	Ile

195	200	205
Pro Ile Val Phe Ile Leu	Ala Thr Tyr Leu Phe Ile	Ile Ala Thr Ile
210	215	220
Leu Arg Ile Arg Ser Thr	Gln Gly Arg Leu Lys Ala Phe Ser Thr Cys	
225	230	235
Ser Ser His Leu Ile Ser	Val Thr Leu Tyr Tyr Gly Ser Ile Leu Tyr	240
	245	250
Ile Tyr Ala Trp Pro Arg	Ser Ser Tyr Ser Leu Asp Arg Asp Lys Ile	255
	260	265
Val Ser Thr Phe Tyr Thr	Val Val Phe Pro Met Leu Asn Pro Leu Ile	270
	275	280
Tyr Ser Leu Arg Asn Lys	Asp Val Lys Glu Ala Leu Ser Lys Leu Phe	285
290	295	300
Lys		
305		

<210> 1868  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1868

Met Glu Arg Gly Asn His Thr Val Thr Gly Phe Ile Leu Leu Gly Phe	
1 5 10 15	
Ser Thr Asp Pro Val Met Gln Lys Ile Leu Phe Val Met Phe Leu Gly	
20 25 30	
Val Tyr Ser Leu Thr Leu Leu Gly Asn Thr Thr Leu Ile Ile Leu Ile	
35 40 45	
Cys Asn Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Ile Gly Asn	
50 55 60	
Leu Ser Phe Leu Asp Leu Trp Tyr Ser Ser Val Tyr Thr Pro Lys Ile	
65 70 75 80	
Leu Val Thr Cys Ile Ser Glu Asp Lys Ser Ile Ser Phe Ala Gly Cys	
85 90 95	
Leu Ser Gln Phe Phe Phe Ser Ala Gly Leu Ala Tyr Ser Glu Cys Tyr	
100 105 110	
Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Thr Ala Ile Ser Asn Pro	
115 120 125	
Leu Leu Tyr Ala Gln Ala Met Ser Arg Arg Leu Cys Val Cys Leu Val	
130 135 140	
Val Tyr Ser Tyr Thr Gly Phe Val Asn Ala Ile Ile Leu Thr Ser	
145 150 155 160	
Asn Thr Phe Thr Leu Asp Phe Cys Gly Asp Asn Val Ile Asp Asp Phe	
165 170 175	
Phe Cys Asp Val Pro Pro Leu Val Lys Leu Ala Cys Asp Val Arg Glu	
180 185 190	
Ser Tyr Gln Ser Val Leu Tyr Phe Leu Leu Ala Ser Asn Val Ile Ser	
195 200 205	
Pro Thr Leu Leu Ile Leu Thr Ser Tyr Leu Phe Ile Ile Ala Ala Ile	
210 215 220	
Leu Arg Ile Arg Ser Thr Gln Gly Arg Leu Lys Ala Phe Ser Thr Cys	
225 230 235 240	
Ser Ser His Leu Ile Ser Val Thr Leu Tyr Tyr Gly Ser Ile Leu Tyr	
245 250 255	
Ile Tyr Ser Arg Pro Ser Ser Ser Tyr Ser Leu Glu Arg Asp Lys Met	
260 265 270	



Val	Ser	Thr	Phe	Tyr	Thr	Val	Leu	Phe	Pro	Met	Leu	Asn	Pro	Met	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Leu	Arg	Lys	Leu	Phe
		290				295					300				
Lys	Leu	Ala	Pro	Ser	Glu	Val									
305					310										

<210> 1869

<211> 313

<212> PRT

<213> Mus musculus

<400> 1869

Met	Glu	Ile	Ser	Asn	Gln	Ser	Gly	Ile	Ser	Glu	Phe	Phe	Leu	Thr	Gly
1				5					10					15	
Leu	Thr	Tyr	Ser	Pro	Ala	Ile	Glu	Ser	Phe	Ile	Phe	Ser	Leu	Phe	Leu
			20					25					30		
Ser	Ile	Tyr	Phe	Val	Thr	Ile	Phe	Gly	Asn	Ile	Leu	Ile	Ile	Leu	Ala
		35					40					45			
Val	Arg	Leu	Asp	Tyr	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Ala
	50					55					60				
Asn	Leu	Ser	Phe	Thr	Asp	Ile	Cys	Ile	Ser	Thr	Thr	Ile	Ile	Pro	Lys
65					70					75					80
Met	Leu	Leu	Asn	Ile	Glu	Thr	Gln	Asn	Gln	Ser	Ile	Thr	Tyr	Thr	Gly
				85					90					95	
Cys	Leu	Ser	Gln	Val	Cys	Phe	Val	Leu	Ile	Phe	Gly	Gly	Leu	Glu	Ser
			100					105					110		
Cys	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Val	His
		115					120					125			
Pro	Leu	Arg	Tyr	Thr	Val	Ile	Met	Asn	Pro	Cys	Leu	Cys	Val	Leu	Leu
		130				135					140				
Val	Leu	Leu	Ser	Leu	Phe	Ile	Ser	Thr	Ile	Asn	Ala	Leu	Leu	His	Ser
145					150					155					160
Leu	Met	Leu	Leu	Lys	Leu	Ser	Phe	Cys	Lys	Asp	Gln	Asn	Ile	Leu	His
				165					170					175	
Phe	Phe	Cys	Glu	Leu	Val	Gln	Val	Ile	Lys	His	Ala	Cys	Ser	Asp	Thr
		180						185					190		
Phe	Ile	Asn	Thr	Leu	Leu	Ile	Tyr	Thr	Val	Thr	Ser	Val	Phe	Ala	Gly
		195					200					205			
Val	Pro	Leu	Ala	Gly	Ile	Ile	Phe	Ser	Tyr	Ile	Gln	Ile	Val	Ser	Ser
		210				215					220				
Ile	Leu	Lys	Ile	Ser	Ser	Val	Gln	Gly	Arg	Asn	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ala	Phe
			245						250					255	
Gly	Val	Tyr	Met	Ser	Ser	Ala	Val	Ser	Asp	Ser	Ser	Val	Lys	Asn	Ile
			260					265					270		
Val	Phe	Ser	Met	Met	Tyr	Thr	Val	Val	Pro	Gln	Met	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Glu	Met	Lys	Gln	Ala	Met	Arg	His	Leu
		290				295					300				
Leu	Phe	Pro	Val	Val	Leu	Ser	Ser	Pro							
305					310										

<210> 1870

<211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1870

Met	Ser	Asn	Met	Glu	Val	Glu	Asn	Lys	Ser	Val	Val	Leu	Asp	Ile	Phe	
1				5					10					15		
Leu	His	Gly	Leu	Thr	Asn	Asp	Pro	Glu	Leu	Gln	Pro	Phe	Ile	Phe	Val	
		20						25					30			
Leu	Phe	Leu	Ser	Ile	Tyr	Leu	Ile	Thr	Val	Ser	Gly	Asn	Leu	Leu	Ile	
		35					40					45				
Met	Leu	Ala	Ile	Lys	Cys	Asp	Phe	His	Leu	His	Asn	Pro	Met	Tyr	Phe	
	50					55					60					
Phe	Leu	Cys	His	Leu	Ser	Phe	Asn	Asp	Met	Tyr	Leu	Ile	Ser	Ile	Thr	
65					70					75					80	
Val	Pro	Lys	Met	Leu	Met	Asn	Ile	Gln	Thr	Lys	Asp	Gln	Arg	Ile	Thr	
			85						90					95		
Phe	Ala	Gly	Cys	Leu	Ser	Gln	Ala	Cys	Phe	Val	Val	Val	Cys	Thr	Ile	
		100						105					110			
Phe	Glu	Cys	Phe	Leu	Leu	Gly	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Ile	Ala	
	115						120					125				
Ile	Cys	Tyr	Pro	Leu	Arg	Tyr	Thr	Val	Leu	Met	Asn	Pro	Ser	Phe	Cys	
	130					135					140					
Val	Ile	Leu	Val	Leu	Phe	Ser	Leu	Phe	Phe	Ser	Ile	Val	Asn	Gly	Leu	
145					150					155					160	
Leu	His	Ser	Leu	Met	Val	Leu	Tyr	Leu	Ser	Phe	Cys	Thr	Asp	Leu	Glu	
			165						170					175		
Ile	Leu	His	Phe	Phe	Cys	Glu	Ile	Ala	Gln	Ile	Leu	Lys	Leu	Ala	Cys	
		180						185					190			
Ser	Asp	Ser	Leu	Ile	Asn	Asn	Ile	Leu	Ile	Phe	Val	Thr	Ala	Ser	Ile	
	195					200						205				
Phe	Ala	Gly	Leu	Pro	Leu	Phe	Ala	Ile	Ile	Phe	Ser	Tyr	Thr	His	Ile	
	210					215					220					
Val	Ser	Thr	Val	Leu	Lys	Met	Pro	Ser	Ser	Glu	Gly	Lys	Tyr	Lys	Ala	
225					230					235					240	
Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	
			245						250					255		
Thr	Gly	Phe	Gly	Val	Tyr	Ile	Thr	Ser	Lys	Val	Ile	Asp	Ser	Pro	Lys	
		260						265					270			
Lys	Ile	Ala	Val	Ala	Ser	Val	Met	Tyr	Ser	Val	Val	Pro	Pro	Met	Leu	
	275					280						285				
Asn	Pro	Phe	Val	Tyr	Cys	Leu	Arg	Asn	Arg	Asp	Met	Lys	Glu	Ala	Leu	
	290					295					300					
Lys	Lys	Val	Ile	Gly	Arg	Thr	Ala	Ser	Leu	Leu						
305					310					315						

<210> 1871  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1871

Met	Glu	Val	Lys	Asn	Lys	Ser	Val	Val	Leu	Asp	Ile	Phe	Leu	His	Gly	
1				5					10					15		
Leu	Thr	Asp	Asp	Ile	Glu	Leu	Gln	Pro	Phe	Ile	Phe	Gly	Phe	Phe	Leu	
		20						25					30			

Cys	Met	Tyr	Leu	Ile	Thr	Ile	Phe	Gly	Asn	Leu	Leu	Ile	Met	Leu	Ala
	35						40					45			
Ile	Ile	Cys	Asp	Ser	His	Leu	His	Lys	Pro	Met	Tyr	Phe	Phe	Leu	Cys
	50					55					60				
His	Leu	Ala	Phe	Asn	Asp	Met	Tyr	Leu	Ile	Ser	Ile	Thr	Val	Pro	Lys
65				70						75					80
Leu	Leu	Val	Asn	Val	Gln	Thr	Gln	Asp	Gln	Arg	Ile	Thr	Leu	Ala	Gly
			85						90					95	
Cys	Leu	Ser	Gln	Gly	Cys	Phe	Val	Ala	Val	Cys	Phe	Ile	Phe	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Gly	Ile	Met	Ala	Tyr	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Phe
	115						120					125			
Pro	Leu	Arg	Tyr	Thr	Val	Leu	Ile	Asn	Pro	Phe	Phe	Cys	Val	Ile	Val
	130					135					140				
Val	Leu	Ile	Ser	Leu	Phe	Ile	Ser	Ile	Val	Asn	Gly	Leu	Leu	His	Ser
145					150					155					160
Leu	Met	Val	Leu	His	Leu	Ser	Phe	Cys	Thr	Asp	Leu	Glu	Ile	Leu	His
				165					170					175	
Phe	Phe	Cys	Glu	Ile	Ala	Gln	Ile	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Asn
		180						185					190		
Leu	Ile	Asn	Asn	Ile	Leu	Ile	Phe	Val	Thr	Ala	Ser	Ser	Phe	Ala	Gly
	195						200					205			
Val	Pro	Leu	Cys	Gly	Ile	Ile	Phe	Ser	Tyr	Val	His	Ile	Val	Ser	Thr
	210					215					220				
Val	Leu	Lys	Met	Pro	Ser	Ser	Glu	Gly	Lys	Tyr	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Gly	Phe
			245						250					255	
Gly	Val	Tyr	Ile	Thr	Ser	Val	Val	Ile	Asp	Ser	Pro	Lys	Glu	Ile	Ala
		260						265					270		
Ile	Ala	Ser	Val	Met	Tyr	Ser	Ile	Val	Pro	Pro	Met	Leu	Asn	Pro	Phe
	275						280					285			
Val	Tyr	Ser	Leu	Lys	Asn	Arg	Asp	Met	Lys	Glu	Ala	Leu	Lys	Lys	Val
	290					295					300				
Ile	Gly	Arg	Thr	Val	Ser	Leu	Pro								
305					310										

<210> 1872

<211> 317

<212> PRT

<213> Mus musculus

<400> 1872

Met	Cys	Lys	Met	Glu	Val	Glu	Asn	Lys	Ser	Val	Val	Phe	Asp	Ile	Phe
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Leu	His	Gly	Leu	Thr	Asp	Asp	Thr	Glu	Leu	Gln	Pro	Phe	Ile	Phe	Gly
		20					25					30			
Leu	Phe	Leu	Cys	Met	Tyr	Leu	Ile	Thr	Ile	Phe	Gly	Asn	Leu	Leu	Ile
	35					40					45				
Ile	Leu	Ala	Ile	Ile	Cys	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe
	50				55						60				
Phe	Leu	Cys	His	Leu	Ala	Phe	Asn	Asp	Met	Tyr	Leu	Ile	Ser	Ile	Thr
65				70						75				80	
Val	Pro	Lys	Met	Leu	Val	Asn	Ile	Gln	Thr	Gln	Asp	Gln	Arg	Ile	Thr
			85					90					95		
Phe	Ala	Gly	Cys	Leu	Ser	Gln	Gly	Cys	Phe	Val	Ala	Val	Cys	Thr	Ile

			100					105				110			
Phe	Glu	Cys	Phe	Leu	Leu	Gly	Ile	Met	Ala	Tyr	Asp	Arg	Phe	Ile	Ala
		115					120					125			
Ile	Cys	Tyr	Pro	Leu	Arg	Tyr	Thr	Val	Leu	Met	Asn	Pro	Cys	Phe	Cys
	130					135					140				
Val	Ile	Leu	Thr	Leu	Ile	Ser	Leu	Phe	Phe	Ser	Ile	Val	Asn	Gly	Leu
145					150					155					160
Leu	His	Ser	Leu	Met	Val	Leu	His	Leu	Ser	Phe	Cys	Thr	Asp	Leu	Glu
			165						170					175	
Ile	Leu	His	Phe	Phe	Cys	Glu	Ile	Ala	Gln	Ile	Leu	Lys	Leu	Ala	Cys
		180						185					190		
Ser	Asp	Ser	Leu	Ile	Asn	Asn	Ile	Leu	Ile	Phe	Val	Thr	Ser	Ser	Ile
	195						200					205			
Phe	Ala	Gly	Val	Pro	Leu	Cys	Gly	Ile	Ile	Phe	Ser	Tyr	Val	His	Ile
	210					215					220				
Val	Ser	Thr	Val	Leu	Lys	Met	Pro	Ser	Leu	Glu	Gly	Lys	Tyr	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly
			245						250					255	
Thr	Gly	Phe	Gly	Val	Tyr	Ile	Ser	Ser	Asn	Val	Ile	Asp	Ser	Pro	Lys
		260						265					270		
Lys	Ile	Ala	Met	Ala	Ser	Val	Met	Tyr	Ser	Ile	Val	Pro	Pro	Met	Met
	275						280					285			
Asn	Pro	Phe	Ile	Tyr	Ser	Met	Arg	Asn	Arg	Asn	Met	Lys	Glu	Ala	Leu
	290					295					300				
Lys	Lys	Val	Ile	Gly	Arg	Lys	Leu	Leu	Phe	Ser	Asp	Val			
305					310					315					

<210> 1873  
 <211> 295  
 <212> PRT  
 <213> Mus musculus

<400> 1873

Met	Gly	Leu	Ser	Asp	Asp	Leu	Gln	Leu	Gln	Pro	Ile	Leu	Phe	Gly	Leu
1			5					10					15		
Phe	Leu	Ser	Met	Tyr	Leu	Val	Thr	Leu	Gly	Asn	Leu	Leu	Ile	Ile	
		20					25					30			
Leu	Thr	Val	Ser	Ser	Asp	Ser	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe
	35					40					45				
Leu	Ser	Asn	Leu	Ser	Leu	Ala	Asp	Val	Ser	Phe	Thr	Ser	Thr	Thr	Leu
	50				55					60					
Pro	Lys	Met	Ile	Val	Asp	Ile	Gln	Thr	His	Asn	Arg	Ala	Ile	Ser	Tyr
65					70					75					80
Ser	Gly	Cys	Leu	Thr	Gln	Met	Ser	Phe	Phe	Met	Leu	Phe	Gly	Cys	Leu
			85					90					95		
Asp	Ser	Leu	Leu	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile
		100					105					110			
Cys	His	Pro	Leu	His	Tyr	Gln	Phe	Ile	Met	Asn	Pro	Arg	Leu	Cys	Gly
	115					120					125				
Leu	Leu	Val	Phe	Leu	Ser	Val	Leu	Ile	Ser	Leu	Phe	Val	Ser	Gln	Leu
	130					135					140				
His	Asn	Ser	Val	Val	Leu	Gln	Leu	Thr	Tyr	Phe	Lys	Ser	Val	Asp	Ile
145					150					155					160
Ser	His	Phe	Phe	Cys	Asp	Pro	Ser	Gln	Leu	Leu	Asn	Leu	Ala	Cys	Ser
			165						170					175	

Asp	Thr	Phe	Thr	Asn	Asn	Ile	Val	Met	Tyr	Phe	Val	Gly	Ala	Ile	Ser
			180					185					190		
Gly	Phe	Leu	Pro	Ile	Ser	Gly	Ile	Phe	Phe	Ser	Tyr	Tyr	Lys	Ile	Val
		195				200						205			
Ser	Ser	Ile	Leu	Arg	Met	Pro	Ser	Pro	Gly	Gly	Lys	Tyr	Lys	Ala	Phe
		210				215					220				
Ser	Thr	Cys	Gly	Ser	His	Leu	Ser	Val	Val	Cys	Leu	Phe	Tyr	Gly	Thr
					230					235					240
Gly	Leu	Gly	Val	Tyr	Leu	Ser	Ser	Ala	Val	Ser	Leu	Ser	Pro	Arg	Lys
				245					250					255	
Gly	Ala	Val	Ala	Ser	Ile	Val	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn
			260					265					270		
Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Gln	Asp	Ile	Lys	Arg	Ala	Met	Trp
		275					280					285			
Arg	Leu	Leu	Arg	Lys	Thr	Val									
		290				295									

<210> 1874  
 <211> 306  
 <212> PRT  
 <213> Mus musculus

<400> 1874

Met	Glu	Pro	Tyr	Asn	Leu	Thr	Gly	Ala	Leu	Glu	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Glu	Asp	Pro	Glu	Leu	Gln	Pro	Val	Leu	Phe	Ala	Leu	Phe	Leu
			20					25					30		
Leu	Ile	Tyr	Leu	Leu	Thr	Val	Leu	Gly	Asn	Val	Leu	Ile	Ile	Leu	Ala
		35					40					45			
Ile	Ser	Ser	Asp	Ser	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Tyr
		50				55					60				
Asn	Leu	Ser	Leu	Ser	Asp	Met	Gly	Phe	Ser	Ser	Thr	Thr	Ile	Pro	Lys
					70					75				80	
Met	Leu	Ile	Asn	Met	Gln	Thr	His	Asn	Lys	Ser	Ile	Thr	Tyr	Ala	Ala
			85						90					95	
Cys	Leu	Thr	Gln	Val	Ser	Phe	Phe	Thr	Leu	Phe	Gly	Cys	Met	Asp	Ser
			100					105					110		
Leu	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Trp	Val	Ala	Ile	Cys	Arg
		115					120					125			
Pro	Leu	Tyr	Tyr	Gln	Val	Ile	Leu	Asn	Pro	Gly	Leu	Cys	Arg	Arg	Leu
		130				135					140				
Val	Leu	Met	Leu	Phe	Phe	Ile	Ser	Tyr	Met	Asn	Ser	Leu	Val	His	Tyr
					150					155				160	
Phe	Ile	Val	Ser	Gln	Leu	Lys	Phe	Cys	Thr	Asn	Met	Glu	Ile	Pro	His
				165					170					175	
Phe	Phe	Cys	Asp	Ile	Pro	Glu	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr
			180					185					190		
Ser	Ile	Asn	Asn	Leu	Phe	Arg	Phe	Leu	Leu	Ser	Ile	Ile	Phe	Gly	Phe
		195					200					205			
Leu	Pro	Val	Ser	Gly	Ile	Phe	Tyr	Ser	Tyr	Tyr	Lys	Ile	Ile	Ser	Ser
		210				215					220				
Ile	Ile	Arg	Val	Pro	Ser	Leu	Leu	Gly	Lys	Tyr	Lys	Ala	Phe	Ser	Thr
					230					235				240	
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Cys	Leu	Phe	Tyr	Gly	Thr	Gly	Leu
				245					250					255	
Glu	Ala	Tyr	Leu	Ser	Ser	Thr	Ile	Ser	Arg	Ser	Thr	Arg	Glu	Asn	Met



<210> 1876  
 <211> 295  
 <212> PRT  
 <213> Mus musculus

<400> 1876  
 Met Ser Leu Ser Glu Asn Val Glu Leu Gln Pro Phe Leu Leu Val Leu  
 1 5 10 15  
 Phe Leu Ser Phe Tyr Met Val Thr Val Leu Gly Asn Leu Leu Ile Ile  
 20 25 30  
 Leu Ala Val Cys Ser Asp Phe His Leu His Thr Pro Met Tyr Phe Phe  
 35 40 45  
 Leu Ser Asn Leu Ser Trp Ser Asp Ile Cys Leu Ile Ser Thr Ile Val  
 50 55 60  
 Pro Arg Met Ile Trp Asp Ile Gly Thr Gln Ser Arg Val Ile Ser Tyr  
 65 70 75 80  
 Val Ser Cys Leu Thr Gln Met Ser Met Phe Ile Val Phe Gly Cys Met  
 85 90 95  
 Asp Ser Met Leu Leu Thr Val Met Ala Tyr Asp Arg Phe Val Ala Ile  
 100 105 110  
 Cys His Pro Leu His Tyr Lys Ile Ile Met Asn Pro Asn Leu Cys Ala  
 115 120 125  
 Phe Leu Leu Leu Ala Ser Val Leu Ala Ser Leu Val Asp Ser Gln Val  
 130 135 140  
 His Asn Leu Ile Val Leu Gln Phe Thr Tyr Phe Asn Asp Met Glu Ile  
 145 150 155 160  
 Ser Asn Phe Phe Cys Asp Pro Ser Gln Leu Leu Asn His Asn Cys Ser  
 165 170 175  
 Glu Met Phe Thr Lys Asn Ile Val Ile His Phe Ile Gly Val Phe Phe  
 180 185 190  
 Gly Leu Phe Ser Thr Thr Gly Ile Ile Phe Ser Tyr Tyr Lys Ile Ile  
 195 200 205  
 Ser Ser Ile Leu Arg Ile Pro Thr Lys Asp Gly Lys Tyr Lys Ala Phe  
 210 215 220  
 Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Leu Phe Tyr Gly Thr  
 225 230 235 240  
 Ser Ile Gly Val Tyr Ile Gly Ser Thr Ala Ser Asn Ser Pro Lys Asn  
 245 250 255  
 Cys Ala Ile Ala Ser Leu Met Tyr Thr Val Val Thr Pro Met Leu Asn  
 260 265 270  
 Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Thr Ala Leu Trp  
 275 280 285  
 Gln Leu Gln Arg Arg Ala Met  
 290 295

<210> 1877  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1877  
 Met Met Lys Leu Lys Met Glu Asn Ile Thr Tyr Val Ser Gln Phe Tyr  
 1 5 10 15  
 Leu Leu Arg Val Ser Asp Asp Pro Glu Leu Gln Pro Phe Leu Ser Gly  
 20 25 30  
 Leu Phe Leu Ser Met Tyr Leu Ile Ser Val Leu Gly Asn Leu Ile Ile





Met	Asp	Asp	Met	Ile	Leu	Asn	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala
	115						120					125			
Ile	Cys	His	Pro	Leu	His	Tyr	Thr	Val	Leu	Met	Asn	Pro	Gln	Val	Cys
	130					135					140				
Val	Ile	Leu	Ile	Leu	Leu	Ser	Phe	Ser	Val	Ser	Val	Phe	Asp	Ser	Gln
145				150					155						160
Leu	His	Asn	Leu	Ile	Ala	Leu	Gln	Asp	Thr	Cys	Phe	Arg	Asp	Val	Glu
			165					170						175	
Ile	Ala	Asn	Phe	Phe	Cys	His	Pro	Ser	Gln	Leu	Leu	Asn	Leu	Ala	Cys
		180						185					190		
Thr	Asn	Thr	Leu	Ser	Ser	Asn	Ile	Val	Ile	Tyr	Phe	Ile	Gly	Val	Ile
	195						200					205			
Leu	Gly	Ile	Phe	Pro	Val	Leu	Gly	Ile	Ile	Leu	Ser	Tyr	Cys	Lys	Ile
	210					215					220				
Val	Phe	Ser	Ile	Leu	Lys	Ile	Pro	Ser	Ser	Ser	Gly	Lys	Tyr	Lys	Ala
225					230				235						240
Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Leu	Val	Val	Cys	Leu	Phe	Tyr	Gly
			245					250						255	
Thr	Gly	Ile	Gly	Val	Tyr	Leu	Gly	Ser	Ala	Val	Ser	His	Ser	Pro	Arg
		260					265						270		
Lys	Asn	Ala	Val	Ala	Ser	Leu	Met	Tyr	Thr	Ala	Val	Ser	Pro	Met	Leu
	275					280						285			
Asn	Pro	Phe	Ile	Tyr	Thr	Leu	Arg	Asn	Arg	Asp	Ile	Ser	Asn	Ala	Leu
	290					295					300				
Lys	Arg	Phe	His	Ser	Arg	Phe	Ser								
305					310										

<210> 1879  
 <211> 295  
 <212> PRT  
 <213> Mus musculus

<400> 1879

Met	Ser	Leu	Ser	Glu	Asn	Val	Glu	Val	Gln	Pro	Phe	Leu	Leu	Val	Leu
1				5					10					15	
Phe	Leu	Ser	Phe	Tyr	Met	Val	Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	Ile
		20					25						30		
Leu	Ala	Val	Cys	Ser	Asp	Phe	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe
	35					40					45				
Leu	Ser	Asn	Leu	Ser	Trp	Ser	Asp	Ile	Cys	Leu	Ile	Ser	Thr	Ile	Val
	50				55					60					
Pro	Arg	Met	Ile	Trp	Asp	Ile	Gly	Thr	Gln	Ser	Arg	Val	Ile	Ser	Tyr
65				70					75					80	
Val	Ser	Cys	Leu	Thr	Gln	Met	Ser	Met	Phe	Ile	Leu	Phe	Ala	Cys	Met
			85						90				95		
Asp	Ser	Met	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile
		100					105						110		
Cys	His	Pro	Leu	His	Tyr	Lys	Ile	Ile	Met	Asn	Pro	Asn	Leu	Cys	Ala
	115					120						125			
Phe	Leu	Leu	Leu	Ala	Ser	Val	Leu	Ala	Ser	Leu	Val	Asp	Ser	Gln	Val
	130					135					140				
His	Asn	Leu	Ile	Val	Leu	Gln	Phe	Thr	His	Phe	Ser	Gly	Met	Glu	Ile
145				150					155					160	
Ser	Asn	Phe	Tyr	Cys	Asp	Pro	Ser	Gln	Leu	Leu	Asn	Leu	Asn	Cys	Ser
		165						170					175		
Glu	Met	Phe	Thr	Lys	Ser	Ile	Val	Ile	His	Phe	Ile	Gly	Val	Phe	Phe

			180					185				190			
Gly	Leu	Phe	Ser	Thr	Thr	Gly	Ile	Ile	Ser	Ser	Tyr	Tyr	Lys	Ile	Ile
		195					200					205			
Ser	Ser	Ile	Leu	Arg	Ile	Pro	Ser	Lys	Asp	Gly	Lys	Tyr	Lys	Ala	Phe
	210					215					220				
Ser	Thr	Cys	Gly	Ser	His	Leu	Ser	Val	Val	Cys	Leu	Phe	Tyr	Gly	Thr
225					230					235					240
Ala	Thr	Ala	Val	Tyr	Ile	Gly	Ser	Thr	Ser	Ser	Tyr	Ser	Pro	Glu	Asn
				245					250					255	
Cys	Ala	Val	Ala	Ser	Leu	Met	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn
			260					265					270		
Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Ile	Lys	Ile	Ala	Leu	Arg
		275					280						285		
Lys	Leu	Gln	Arg	Arg	Ala	Ile									
	290					295									

<210> 1880  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1880

Met	Lys	Asn	Arg	Thr	Ser	Val	Ser	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Ser	Asp	Pro	Lys	Leu	Asn	Ile	Leu	Ile	Phe	Ile	Phe	Leu	Phe	Ile	Thr
			20					25					30		
Tyr	Ile	Leu	Ser	Ile	Thr	Gly	Asn	Leu	Thr	Ile	Ile	Thr	Leu	Thr	Leu
	35						40					45			
Ile	Asp	Ser	His	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe
	50					55					60				
Ser	Phe	Leu	Glu	Ile	Ser	Phe	Thr	Thr	Val	Ser	Ile	Pro	Arg	Phe	Leu
65				70					75						80
Val	Ser	Ile	Val	Thr	Gly	Asp	Met	Thr	Ile	Ser	Tyr	Asn	Ser	Cys	Met
				85				90						95	
Ala	Gln	Val	Phe	Phe	Phe	Ile	Leu	Leu	Gly	Ser	Thr	Glu	Phe	Phe	Leu
		100						105					110		
Leu	Thr	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
	115					120						125			
His	Tyr	Thr	Thr	Ile	Met	Asn	Ser	Arg	Val	Cys	Met	Gln	Leu	Ile	Val
	130				135						140				
Ser	Ser	Trp	Leu	Ala	Gly	Phe	Leu	Ile	Ile	Phe	Pro	Pro	Val	Ile	Met
145				150					155						160
Gly	Leu	Gln	Leu	Asp	Phe	Cys	Asp	Ser	Asn	Ile	Ile	Asp	His	Phe	Thr
			165						170					175	
Cys	Asp	Ser	Ser	Pro	Leu	Leu	Leu	Ile	Ser	Cys	Thr	Asp	Thr	Ala	Phe
		180						185					190		
Leu	Glu	Leu	Leu	Ala	Phe	Phe	Leu	Ala	Val	Phe	Thr	Leu	Met	Val	Thr
	195						200					205			
Leu	Thr	Leu	Val	Ile	Leu	Ser	Tyr	Ser	Phe	Ile	Leu	Arg	Thr	Ile	Leu
	210					215					220				
Arg	Ile	Pro	Ser	Ala	Glu	Gln	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser
225				230						235					240
Ser	His	Met	Ile	Val	Val	Ser	Ile	Ser	Tyr	Gly	Ser	Cys	Ile	Phe	Met
			245						250					255	
Tyr	Val	Lys	Thr	Ser	Ala	Lys	Glu	Gly	Val	Ala	Leu	Thr	Lys	Gly	Ile
		260						265					270		

Ala	Val	Leu	Asn	Thr	Ser	Val	Ala	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr
		275					280					285			
Ser	Leu	Arg	Asn	Lys	Gln	Val	Lys	Glu	Ser	Phe	Arg	Asn	Leu	Ile	Lys
	290					295					300				
Lys	Cys	Ile	Ser	Asn	Lys	Ile									
305					310										

<210> 1881  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 1881

Met	Lys	Asn	Gln	Ser	Val	Glu	Ile	Val	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Asp	Asp	Pro	Gln	Leu	Gln	Ile	Leu	Ile	Phe	Leu	Phe	Met	Phe	Phe	Asn
			20					25					30		
Tyr	Ile	Leu	Ser	Leu	Ile	Gly	Asn	Leu	Ile	Ile	Ile	Phe	Leu	Thr	Leu
	35					40						45			
Leu	Asp	Leu	Arg	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe
	50				55						60				
Ser	Phe	Leu	Glu	Met	Ala	Phe	Thr	Ser	Ser	Cys	Ile	Pro	Arg	Phe	Leu
65				70						75					80
Met	Ser	Ile	Leu	Thr	Gly	Asp	Lys	Thr	Ile	Ser	Tyr	Gly	Ser	Cys	Leu
			85						90					95	
Thr	Gln	Leu	Phe	Phe	Phe	Phe	Leu	Leu	Leu	Ile	Thr	Glu	Phe	Tyr	Leu
			100					105					110		
Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg	Pro	Leu
	115						120					125			
His	Tyr	Pro	Ile	Ile	Met	Asn	Ser	Lys	Val	Cys	His	Leu	Leu	Val	Leu
	130					135					140				
Ser	Ser	Trp	Val	Thr	Gly	Phe	Leu	Ser	Ile	Phe	Pro	Pro	Leu	Met	Leu
145					150					155					160
Gly	Leu	Lys	Leu	Asp	Phe	Cys	Ala	Ser	Lys	Leu	Ile	Asp	His	Phe	Leu
			165						170					175	
Cys	Asp	Thr	Ser	Pro	Val	Leu	Gln	Leu	Ser	Cys	Thr	Asp	Thr	Arg	Phe
		180						185					190		
Ile	Glu	Trp	Met	Ala	Phe	Val	Ile	Ala	Ile	Met	Thr	Leu	Ile	Ile	Thr
	195						200					205			
Leu	Ile	Leu	Val	Ile	Leu	Ser	Tyr	Thr	Leu	Ile	Ile	Lys	Thr	Ile	Leu
	210					215					220				
Lys	Phe	Pro	Ser	Ala	Gln	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser	
225				230					235					240	
Ser	His	Met	Val	Val	Val	Ser	Ile	Thr	Tyr	Gly	Ser	Cys	Ile	Phe	Met
			245						250					255	
Tyr	Ile	Lys	Thr	Ser	Ala	Lys	Glu	Arg	Val	Ser	Leu	Asn	Lys	Gly	Val
		260						265					270		
Ala	Val	Leu	Asn	Thr	Ser	Val	Ala	Pro	Leu	Leu	Asn	Pro	Phe	Ile	Tyr
	275						280					285			
Thr	Leu	Arg	Asn	Gln	Gln	Val	Lys	Asp	Ala	Phe	Lys	Gln	Val	Leu	Gln
	290					295					300				
Arg	Leu	Cys	His	Ser	Gln	Asn	Ser	Glu	Leu	Arg	Phe	Arg	His	Gln	
305					310					315					

<210> 1882

<211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1882

Met	Lys	Asn	Tyr	Thr	Ile	Ile	Thr	Glu	Phe	Val	Leu	Leu	Gly	Ile	Ser
1				5					10					15	
Gly	Asn	Arg	Glu	Leu	Gln	Val	Val	Ile	Phe	Val	Phe	Leu	Leu	Ile	Thr
		20						25					30		
Tyr	Ile	Val	Ser	Ile	Thr	Gly	Asn	Leu	Thr	Ile	Ile	Leu	Leu	Thr	Leu
		35					40					45			
Leu	Asp	Ser	His	Leu	Lys	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Arg	Asn	Phe
	50					55					60				
Ser	Phe	Leu	Glu	Ile	Met	Phe	Thr	Ser	Val	Ser	Ile	Pro	Arg	Phe	Leu
65					70					75					80
Ala	Ser	Ile	Ile	Thr	Gln	Val	Lys	Thr	Ile	Ser	Tyr	Asn	Asn	Cys	Phe
				85					90					95	
Ala	Gln	Leu	Phe	Phe	Phe	Ile	Phe	Met	Gly	Val	Thr	Glu	Phe	Phe	Leu
				100				105					110		
Leu	Thr	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115				120						125			
His	Tyr	Thr	Leu	Ile	Met	Asn	Gln	Lys	Val	Cys	Thr	Leu	Leu	Val	Leu
	130					135					140				
Thr	Ser	Trp	Leu	Ala	Gly	Phe	Leu	Thr	Ile	Phe	Pro	Pro	Leu	Met	Leu
145					150					155					160
Val	Leu	Lys	Leu	Asp	Phe	Cys	Ala	Ser	Asn	Val	Ile	Asp	His	Phe	Cys
				165					170					175	
Cys	Asp	Tyr	Phe	Pro	Leu	Leu	Gln	Leu	Ser	Cys	Ser	Asp	Thr	Trp	Leu
			180					185					190		
Leu	Glu	Val	Ile	Gly	Phe	Tyr	Val	Ala	Leu	Val	Thr	Leu	Leu	Phe	Thr
		195					200					205			
Leu	Ala	Leu	Val	Ile	Leu	Ser	Tyr	Met	Tyr	Ile	Phe	Arg	Thr	Ile	Leu
	210					215					220				
Arg	Ile	Pro	Ser	Ala	Asn	Gln	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser
225					230					235					240
Ser	His	Met	Ile	Val	Ile	Ser	Met	Ser	Tyr	Gly	Ser	Cys	Ile	Phe	Ile
				245					250					255	
Tyr	Val	Lys	Pro	Ser	Ala	Asn	Glu	Arg	Ala	Ser	Leu	Thr	Lys	Thr	Val
			260					265					270		
Ala	Ile	Leu	Ser	Thr	Ser	Val	Ala	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr
		275					280					285			
Thr	Leu	Arg	Asn	Gln	Gln	Val	Lys	Gln	Ala	Phe	Lys	Asp	Leu	Ile	His
	290					295					300				
Lys	Val	Val	Phe												
305															

<210> 1883  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1883

Met	Lys	Asn	Gln	Ser	Val	Glu	Ile	Val	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Asp	Asp	Pro	Gln	Leu	Gln	Ile	Leu	Ile	Phe	Leu	Phe	Met	Phe	Phe	Asn
			20					25					30		

Tyr	Ile	Leu	Ser	Leu	Met	Gly	Asn	Leu	Val	Ile	Ile	Phe	Leu	Thr	Leu
	35						40					45			
Leu	Asp	Leu	Arg	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe
	50					55					60				
Ser	Phe	Leu	Glu	Ile	Ala	Phe	Thr	Thr	Ala	Cys	Ile	Pro	Arg	Phe	Leu
65					70					75					80
Met	Ser	Ile	Leu	Thr	Gly	Asp	Lys	Thr	Ile	Thr	Tyr	Asn	Ala	Cys	Val
			85						90					95	
Ala	Gln	Leu	Phe	Phe	Phe	Phe	Leu	Leu	Leu	Ile	Thr	Glu	Phe	Tyr	Leu
		100						105					110		
Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg	Pro	Leu
	115						120					125			
His	Tyr	Pro	Ile	Ile	Met	Asn	Ser	Lys	Val	Cys	His	Ile	Leu	Val	Leu
	130					135					140				
Ser	Ser	Trp	Met	Thr	Gly	Phe	Leu	Ser	Ile	Phe	Pro	Pro	Leu	Met	Leu
145					150					155					160
Gly	Leu	Lys	Leu	Glu	Phe	Cys	Ala	Ser	Lys	Thr	Val	Asp	His	Phe	Leu
				165					170					175	
Cys	Asp	Thr	Ser	Pro	Val	Leu	Gln	Leu	Ser	Cys	Thr	Asp	Thr	Arg	Phe
		180						185					190		
Ile	Glu	Trp	Met	Ala	Phe	Val	Ile	Ala	Ile	Met	Thr	Leu	Ile	Ile	Thr
	195						200					205			
Leu	Ile	Leu	Val	Ile	Leu	Ser	Tyr	Thr	Leu	Ile	Ile	Lys	Thr	Ile	Leu
	210					215					220				
Lys	Phe	Pro	Ser	Ala	Gln	Gln	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser
225					230					235					240
Ser	His	Met	Val	Val	Val	Ser	Ile	Thr	Tyr	Gly	Ser	Cys	Ile	Phe	Met
			245						250					255	
Tyr	Ile	Lys	Thr	Ser	Ala	Lys	Glu	Arg	Val	Ser	Leu	Asn	Lys	Gly	Val
		260						265					270		
Ala	Val	Leu	Asn	Thr	Ser	Val	Ala	Pro	Leu	Leu	Asn	Pro	Phe	Ile	Tyr
	275						280					285			
Thr	Leu	Arg	Asn	Gln	Gln	Val	Lys	Asp	Ala	Phe	Lys	Gln	Val	Leu	Gln
	290					295					300				
Arg	Leu	Cys	His	Tyr	Gln	Thr	Val	Asn							
305					310										

<210> 1884

<211> 319

<212> PRT

<213> Mus musculus

<400> 1884

Met	Lys	Asn	Gln	Ser	Leu	Lys	Ile	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Asp	Asp	Pro	Gln	Leu	Gln	Ile	Pro	Ile	Phe	Leu	Phe	Leu	Phe	Phe	Asn
			20					25					30		
Tyr	Ile	Leu	Ser	Leu	Met	Gly	Asn	Tyr	Met	Ile	Ile	Phe	Leu	Thr	Leu
	35					40						45			
Leu	Asp	Pro	His	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe
	50					55					60				
Ser	Phe	Leu	Glu	Ile	Ala	Phe	Thr	Thr	Val	Cys	Ile	Pro	Arg	Phe	Leu
65					70					75					80
Ile	Ser	Ile	Leu	Ser	Gly	Asp	Arg	Thr	Ile	Ser	Tyr	Asn	Ala	Cys	Ala
			85						90					95	
Ala	Gln	Leu	Phe	Phe	Phe	Phe	Leu	Leu	Gly	Ser	Thr	Glu	Phe	Tyr	Leu



Asp	Phe	Phe	Pro	Leu	Leu	Gln	Leu	Ser	Cys	Ser	Asp	Thr	Leu	Phe	Leu
			180					185					190		
Glu	Val	Ile	Gly	Phe	Tyr	Val	Ala	Leu	Val	Ala	Leu	Leu	Phe	Thr	Leu
		195					200					205			
Ala	Leu	Val	Ile	Leu	Ser	Tyr	Met	Tyr	Ile	Ile	Arg	Thr	Ile	Leu	Arg
	210					215					220				
Ile	Pro	Ser	Thr	Ser	Gln	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser
225					230					235					240
His	Met	Ile	Val	Ile	Ser	Leu	Ser	Tyr	Gly	Ser	Cys	Ile	Phe	Met	Tyr
				245					250					255	
Ala	Asn	Pro	Ser	Ala	Lys	Glu	Lys	Ala	Ser	Leu	Thr	Lys	Gly	Val	Ala
			260					265					270		
Ile	Leu	Asn	Thr	Ser	Val	Val	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr	Thr
		275					280					285			
Leu	Arg	Asn	Gln	Gln	Val	Lys	Gln	Ala	Phe	Lys	Gly	Ala	Val	His	Lys
	290					295					300				
Leu	Val	Phe	Ser	Val	Ser	Lys									
305						310									

<210> 1886

<211> 312

<212> PRT

<213> Mus musculus

<400> 1886

Met	Lys	Asn	His	Thr	Arg	Val	Thr	Val	Phe	Ile	Ile	Ala	Gly	Leu	Thr
1				5					10					15	
Asp	Asp	Pro	Gln	Trp	Lys	Val	Val	Leu	Phe	Ile	Phe	Leu	Leu	Leu	Thr
			20					25				30			
Tyr	Leu	Leu	Ser	Ile	Thr	Gly	Asn	Leu	Ala	Ile	Ile	Thr	Leu	Thr	Leu
	35					40						45			
Val	Asp	Thr	His	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe
	50				55					60					
Ser	Phe	Leu	Glu	Phe	Ser	Tyr	Thr	Thr	Thr	Cys	Ile	Pro	Lys	Leu	Leu
65				70					75					80	
Val	Thr	Met	Ala	Thr	Gly	Asp	Lys	Thr	Ile	Ser	Tyr	Gly	Asn	Cys	Leu
			85					90					95		
Thr	Gln	Val	Phe	Phe	Ala	Phe	Leu	Phe	Gly	Ala	Ser	Glu	Phe	Tyr	Leu
		100					105					110			
Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
	115					120						125			
His	Tyr	Met	Thr	Ile	Met	Asn	Asn	Lys	Val	Cys	Val	Gln	Leu	Val	Leu
	130				135					140					
Ser	Cys	Trp	Leu	Ala	Gly	Phe	Phe	Val	Ile	Phe	Pro	Pro	Leu	Leu	Leu
145				150					155					160	
Gly	Leu	Asn	Leu	Asp	Phe	Cys	Ala	Ser	Asn	Ile	Val	Asp	His	Phe	Tyr
			165					170					175		
Cys	Asp	Thr	Thr	Pro	Leu	Leu	Gln	Leu	Ser	Cys	Thr	Asp	Thr	Gln	Leu
		180					185					190			
Leu	Glu	Thr	Met	Gly	Phe	Val	Ser	Ala	Leu	Val	Thr	Leu	Leu	Leu	Thr
	195					200					205				
Leu	Val	Met	Val	Ile	Val	Ser	Tyr	Ile	Tyr	Ile	Ala	Ile	Thr	Ile	Leu
	210				215						220				
Lys	Ile	Pro	Ser	Ala	Ser	Gln	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser
225				230						235				240	
Ser	His	Met	Ile	Val	Ile	Ser	Leu	Ser	Tyr	Gly	Ser	Cys	Ile	Phe	Met





<210> 1888  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1888  
 Met Arg Asn His Thr Ile Thr Thr Phe Ile Leu Leu Gly Leu Thr Asp  
 1 5 10 15  
 Asp Pro Gln Leu Lys Thr Leu Ile Phe Ile Phe Leu Phe Leu Ser Tyr  
 20 25 30  
 Val Leu Ser Met Thr Gly Asn Leu Thr Ile Ile Ser Leu Thr Phe Ile  
 35 40 45  
 Asp Pro His Leu Lys Thr Ala Met Tyr Phe Phe Leu Gln Asn Phe Ser  
 50 55 60  
 Phe Leu Glu Ile Ser Phe Thr Thr Ala Cys Ile Pro Arg Tyr Leu Tyr  
 65 70 75 80  
 Asn Ile Ser Thr Gly Asp Lys Thr Ile Thr Tyr Asn Asn Cys Ala Ile  
 85 90 95  
 Gln Ile Phe Cys Val Asp Leu Phe Gly Val Thr Glu Phe Phe Leu Leu  
 100 105 110  
 Ala Ile Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu His  
 115 120 125  
 Tyr Ser Thr Ile Met Ser Ser Arg Ile Cys Thr Arg Leu Ile Leu Cys  
 130 135 140  
 Cys Trp Ala Ala Gly Leu Phe Val Ile Leu Pro Pro Leu Ser Leu Gly  
 145 150 155 160  
 Leu Lys Leu Glu Phe Cys Asp Ser Asn Val Ile Asp His Phe Val Cys  
 165 170 175  
 Asp Ala Asn Pro Leu Leu Lys Ile Ser Cys Thr Glu Thr Trp Leu Ile  
 180 185 190  
 Glu Gln Ile Val Ile Val Cys Ala Val Phe Thr Phe Ile Met Thr Leu  
 195 200 205  
 Val Cys Val Ser Leu Ser Tyr Ile Tyr Ile Ile Arg Thr Ile Leu Arg  
 210 215 220  
 Phe Pro Ser Ala Gln Gln Arg Lys Lys Ala Phe Ser Thr Cys Ser Ser  
 225 230 235 240  
 His Met Ile Val Val Ser Ile Thr Tyr Gly Ser Cys Ile Phe Ile Tyr  
 245 250 255  
 Ile Lys Pro Ser Ala Lys Asp Ser Val Thr Ile Asn Lys Gly Val Thr  
 260 265 270  
 Ile Leu Thr Thr Ser Ile Ala Pro Met Leu Asn Pro Phe Ile Tyr Thr  
 275 280 285  
 Leu Arg Asn Lys Gln Val Lys Gln Ala Phe Asn Asp Ser Val Lys Arg  
 290 295 300  
 Ile Val Leu Phe Phe Gln Lys  
 305 310

<210> 1889  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1889  
 Met Lys Asn Asn Thr Ile Thr Thr Phe Ile Leu Leu Gly Leu Thr Asp

1				5				10				15				
Asp	Pro	Gln	Leu	Gln	Ile	Pro	Ile	Phe	Val	Phe	Leu	Phe	Phe	Ala	Tyr	
			20					25					30			
Met	Leu	Ser	Ile	Thr	Gly	Asn	Leu	Thr	Ile	Ile	Ser	Leu	Thr	Ile	Leu	
		35					40					45				
Asp	Ser	His	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gln	Asn	Phe	Ser	
	50					55					60					
Ile	Leu	Glu	Ile	Ser	Phe	Thr	Ser	Ala	Cys	Ile	Pro	Arg	Tyr	Leu	Tyr	
65					70					75					80	
Asn	Ile	Ala	Thr	Gly	Asp	Arg	Ser	Ile	Thr	Tyr	Asn	Val	Cys	Val	Ile	
				85					90					95		
Gln	Val	Phe	Phe	Thr	Asp	Val	Phe	Gly	Val	Ile	Glu	Phe	Phe	Leu	Leu	
			100					105					110			
Ala	Ile	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	His	
		115					120					125				
Tyr	Val	Thr	Ile	Met	Ser	Ser	Lys	Val	Cys	Gln	Thr	Leu	Val	Leu	Cys	
	130					135					140					
Cys	Trp	Ser	Ala	Gly	Leu	Leu	Ile	Ile	Leu	Pro	Pro	Leu	Thr	Leu	Phe	
145					150					155					160	
Leu	Asn	Leu	Arg	Phe	Cys	Asp	Ser	Asn	Val	Ile	Asp	Tyr	Phe	Phe	Cys	
			165					170						175		
Asp	Ala	Ser	Pro	Ile	Leu	Lys	Ile	Ser	Cys	Ser	Asp	Thr	Trp	Leu	Ile	
		180						185					190			
Glu	Gln	Leu	Val	Ile	Val	Cys	Ala	Val	Leu	Thr	Phe	Ile	Leu	Thr	Leu	
		195					200					205				
Val	Cys	Val	Thr	Leu	Ser	Tyr	Val	His	Ile	Ile	Lys	Thr	Ile	Leu	Arg	
	210					215					220					
Phe	Pro	Ser	Ala	Gln	Gln	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	
225					230					235					240	
His	Met	Ile	Val	Val	Ser	Ile	Thr	Tyr	Gly	Ser	Cys	Ile	Phe	Ile	Tyr	
			245						250					255		
Ile	Asn	Pro	Ser	Ala	Lys	Glu	Ser	Val	Ala	Ile	Asn	Lys	Gly	Val	Ala	
			260					265					270			
Val	Leu	Met	Thr	Ser	Ile	Ala	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr	Thr	
		275					280					285				
Leu	Arg	Asn	Lys	Gln	Val	Arg	Gln	Ala	Phe	Ser	Asp	Ser	Phe	Lys	Lys	
	290					295					300					
Ile	Ala	Ile	Ile	Ser	Met	Lys	Lys	Glu	Asn	Val	Gln	Ile				
305					310					315						

<210> 1890  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1890

Met	Arg	Asn	His	Ser	Met	Val	Thr	Glu	Phe	Leu	Leu	Ser	Gly	Ile	Ser	
1				5					10					15		
Asp	Thr	Pro	Glu	Val	Gln	Val	Val	Ile	Phe	Ile	Leu	Leu	Phe	Ile	Ala	
			20					25					30			
Tyr	Ile	Leu	Ser	Val	Thr	Gly	Asn	Leu	Thr	Ile	Ile	Thr	Leu	Thr	Leu	
		35				40						45				
Leu	Asp	Ser	Gln	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gln	Asn	Phe	
	50					55					60					
Ser	Phe	Leu	Glu	Ile	Ile	Phe	Thr	Ser	Val	Ser	Val	Pro	Arg	Phe	Leu	
65					70					75					80	

Gly	Ser	Ile	Ile	Thr	Glu	Val	Lys	Thr	Ile	Ser	Tyr	Asn	Asn	Cys	Leu
				85					90					95	
Thr	Gln	Leu	Tyr	Phe	Phe	Leu	Ser	Leu	Gly	Val	Ser	Glu	Phe	Phe	Leu
			100					105					110		
Leu	Thr	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Val	Ile	Ile	Met	Asn	Gln	Lys	Val	Cys	Thr	Leu	Leu	Val	Leu
	130					135					140				
Thr	Ser	Trp	Leu	Ile	Gly	Phe	Leu	Ser	Ile	Phe	Pro	Leu	Ile	Met	Leu
145					150					155					160
Ile	His	Lys	Leu	Asp	Phe	Cys	Ala	Ser	Asn	Thr	Ile	Asp	His	Phe	Cys
				165					170					175	
Cys	Asp	Tyr	Phe	Pro	Ile	Leu	Gln	Leu	Ser	Cys	Ser	Asp	Thr	Arg	Leu
			180					185					190		
Leu	Glu	Ala	Phe	Gly	Phe	Tyr	Cys	Ala	Ser	Ile	Thr	Leu	Leu	Phe	Thr
		195					200					205			
Leu	Ala	Leu	Val	Ile	Leu	Ser	Tyr	Ile	Cys	Ile	Ile	Asn	Thr	Ile	Leu
	210					215					220				
Arg	Phe	Pro	Ser	Ala	Ser	Gln	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser
225					230					235					240
Ser	His	Met	Ile	Val	Ile	Ser	Ile	Ser	Tyr	Gly	Ser	Cys	Ile	Phe	Met
				245					250					255	
Tyr	Val	Lys	Pro	Ser	Ala	Asn	Glu	Arg	Ala	Ser	Leu	Thr	Lys	Gly	Val
			260					265					270		
Ala	Val	Leu	Asn	Thr	Ser	Ile	Ala	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr
		275					280					285			
Thr	Leu	Arg	Asn	Gln	Gln	Val	Lys	Gln	Ala	Phe	Lys	Asp	Phe	Ile	Asn
	290					295					300				
Lys	Val	Met	Phe	Asn	Arg	Asn	Lys								
305						310									

<210> 1891  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1891

Met	Arg	Asn	His	Ser	Met	Val	Thr	Glu	Phe	Val	Leu	Leu	Gly	Ile	Ser
1				5					10					15	
Asp	Thr	Pro	Glu	Val	Gln	Val	Val	Ile	Phe	Ile	Leu	Leu	Phe	Ile	Ala
			20					25					30		
Tyr	Ile	Leu	Ser	Val	Thr	Gly	Asn	Leu	Thr	Ile	Ile	Thr	Leu	Thr	Leu
	35					40						45			
Leu	Asp	Ser	Gln	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gln	Asn	Phe
	50					55					60				
Ser	Phe	Leu	Glu	Ile	Ile	Phe	Thr	Ser	Val	Ser	Ile	Pro	Arg	Phe	Leu
65					70				75						80
Glu	Ser	Ile	Ile	Thr	Lys	Val	Lys	Thr	Ile	Ser	Tyr	Asn	Asn	Cys	Leu
				85				90						95	
Thr	Gln	Leu	Tyr	Phe	Phe	Leu	Ser	Leu	Gly	Val	Ser	Glu	Phe	Phe	Leu
			100					105					110		
Leu	Thr	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115				120						125			
His	Tyr	Val	Ile	Ile	Met	Asn	Gln	Lys	Val	Cys	Thr	Leu	Leu	Val	Leu
	130					135					140				
Thr	Ser	Trp	Leu	Ile	Gly	Phe	Leu	Ser	Ile	Phe	Pro	Leu	Ile	Met	Leu

145					150					155				160
Ile	His	Lys	Leu	Asp	Phe	Cys	Ala	Ser	Asn	Thr	Ile	Asp	His	Phe
				165					170					175
Cys	Asp	Tyr	Phe	Pro	Ile	Leu	Gln	Leu	Ser	Cys	Ser	Asp	Thr	Arg
			180					185					190	
Leu	Glu	Ala	Phe	Gly	Leu	Tyr	Cys	Ala	Ser	Ile	Thr	Leu	Leu	Phe
	195						200					205		
Leu	Ala	Leu	Val	Ile	Leu	Ser	Tyr	Ile	Cys	Ile	Ile	Asn	Thr	Ile
	210					215					220			
Arg	Phe	Pro	Ser	Ala	Ser	Gln	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235				240
Ser	His	Met	Ile	Val	Ile	Ser	Ile	Ser	Tyr	Gly	Ser	Cys	Ile	Phe
			245						250					255
Tyr	Val	Lys	Pro	Ser	Ala	Asn	Glu	Arg	Ala	Ser	Leu	Thr	Lys	Gly
			260					265					270	
Ala	Val	Leu	Asn	Thr	Ser	Ile	Ala	Pro	Met	Leu	Asn	Pro	Phe	Ile
	275						280					285		
Thr	Leu	Arg	Asn	Gln	Gln	Val	Lys	Gln	Ala	Phe	Lys	Asp	Leu	Ile
	290				295						300			
Lys	Leu	Met	Phe	Asn	Arg	Asn	Lys							
305					310									

<210> 1892  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1892

Met	Arg	Asn	His	Thr	Val	Thr	Thr	Phe	Ile	Leu	Leu	Gly	Leu	Thr	Asp
1				5				10					15		
Asp	Pro	Gln	Leu	Lys	Thr	Leu	Ile	Phe	Ile	Phe	Leu	Phe	Leu	Ser	Tyr
			20					25					30		
Met	Leu	Ser	Met	Thr	Gly	Asn	Leu	Thr	Ile	Ile	Ser	Leu	Thr	Phe	Ile
	35					40						45			
Asp	Ser	His	Leu	Lys	Thr	Ala	Met	Tyr	Phe	Phe	Leu	Gln	Asn	Phe	Ser
	50				55						60				
Phe	Leu	Glu	Ile	Ser	Phe	Thr	Thr	Ala	Cys	Ile	Pro	Arg	Tyr	Leu	Tyr
65					70					75				80	
Asn	Ile	Ser	Thr	Gly	Asp	Lys	Thr	Ile	Thr	Tyr	Asn	Asn	Cys	Val	Ile
			85					90						95	
Gln	Ile	Phe	Cys	Thr	Asp	Leu	Phe	Gly	Val	Thr	Glu	Phe	Phe	Leu	Leu
			100					105					110		
Ala	Ile	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	His
	115						120					125			
Tyr	Ser	Thr	Ile	Met	Ser	Ser	Arg	Ile	Cys	Ala	Arg	Leu	Ile	Leu	Ser
	130					135					140				
Cys	Trp	Ala	Ala	Gly	Leu	Phe	Val	Ile	Leu	Pro	Pro	Leu	Ser	Leu	Gly
145					150					155				160	
Leu	Lys	Leu	Lys	Phe	Cys	Asp	Ser	Asn	Val	Ile	Asp	His	Phe	Val	Cys
			165					170						175	
Asp	Ala	Asn	Pro	Leu	Leu	Lys	Ile	Ser	Cys	Thr	Glu	Thr	Trp	Leu	Ile
			180				185						190		
Glu	Gln	Ile	Val	Ile	Val	Ser	Ala	Val	Leu	Thr	Phe	Ile	Thr	Thr	Leu
	195					200						205			
Leu	Cys	Val	Ser	Leu	Ser	Tyr	Ile	Tyr	Ile	Ile	Arg	Thr	Ile	Leu	Arg
	210					215					220				

Phe	Pro	Ser	Ala	Gln	Gln	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser
225					230					235					240
His	Met	Ile	Val	Val	Ser	Ile	Thr	Tyr	Gly	Ser	Cys	Ile	Phe	Ile	Tyr
				245					250					255	
Ile	Lys	Pro	Ser	Ala	Lys	Asp	Ser	Val	Thr	Ile	Asn	Lys	Gly	Val	Met
			260					265					270		
Val	Leu	Thr	Thr	Ser	Ile	Ala	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr	Thr
		275					280					285			
Leu	Arg	Asn	Lys	Gln	Val	Lys	Gln	Ala	Phe	Asn	Asp	Ser	Val	Lys	Arg
	290					295					300				
Ile	Ala	Leu	Phe	Phe	Gln	Lys									
305					310										

<210> 1893

<211> 313

<212> PRT

<213> Mus musculus

<400> 1893

Met	Ser	Val	Ala	Asn	Glu	Ser	Ile	Ser	Arg	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Asp	Arg	Pro	Trp	Leu	Glu	Leu	Pro	Leu	Phe	Val	Val	Phe	Leu
			20					25					30		
Val	Ser	Tyr	Ile	Leu	Thr	Ile	Phe	Gly	Asn	Met	Met	Ile	Ile	Leu	Val
		35				40						45			
Ser	Arg	Leu	Asp	Ser	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Thr
	50				55						60				
Asn	Leu	Ser	Leu	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Ser	Thr	Val	Pro	Gln
65				70					75					80	
Met	Leu	Ile	Asn	Ile	Cys	Ser	Thr	Arg	Lys	Val	Ile	Ser	Tyr	Gly	Gly
			85					90					95		
Cys	Val	Ala	Gln	Leu	Phe	Ile	Phe	Leu	Ala	Leu	Gly	Cys	Thr	Glu	Cys
		100					105					110			
Phe	Leu	Leu	Gly	Val	Met	Ser	Phe	Asp	Arg	Phe	Val	Ala	Ile	Cys	Arg
	115				120						125				
Pro	Leu	His	Tyr	Ser	Val	Ile	Met	His	Gln	Arg	Arg	Cys	Leu	Gln	Leu
	130				135						140				
Ala	Ala	Ala	Cys	Trp	Ile	Ser	Gly	Phe	Ser	Asn	Ser	Val	Leu	Gln	Ser
145				150					155					160	
Thr	Trp	Thr	Leu	Gln	Met	Pro	Leu	Cys	Gly	His	Asn	Arg	Val	Asp	His
			165					170					175		
Phe	Leu	Cys	Glu	Ile	Pro	Ala	Leu	Leu	Lys	Leu	Ser	Cys	Val	Asp	Thr
		180					185						190		
Thr	Ala	Ile	Glu	Ser	Glu	Gln	Phe	Phe	Ile	Ser	Val	Val	Phe	Leu	Leu
	195					200						205			
Ile	Pro	Val	Thr	Leu	Ile	Leu	Ile	Ser	Tyr	Ala	Phe	Ile	Val	Gln	Ala
	210				215					220					
Val	Leu	Arg	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Gly	Thr
225				230					235					240	
Cys	Gly	Ser	His	Leu	Ile	Val	Val	Val	Leu	Phe	Tyr	Gly	Thr	Ala	Ile
			245					250					255		
Tyr	Met	Tyr	Leu	Gln	Pro	Pro	Ser	Pro	Thr	Ser	Lys	Asp	Arg	Gly	Lys
		260					265					270			
Met	Val	Ser	Leu	Phe	Tyr	Gly	Ile	Ile	Thr	Pro	Met	Leu	Asn	Pro	Leu
	275					280						285			
Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Lys	Gly	Ala	Phe	Lys	Arg	Leu

290 295 300  
Val Thr Arg Ile Ile Leu Ser Arg Lys  
305 310

<210> 1894  
<211> 313  
<212> PRT  
<213> Mus musculus

<400> 1894  
Met Ser Trp Ala Asn Glu Ser Ile Thr Gly Glu Phe Val Leu Leu Gly  
1 5 10 15  
Phe Ser Asp Gln Pro Trp Leu Glu Phe Pro Leu Phe Val Val Phe Leu  
20 25 30  
Thr Ser Tyr Ile Val Thr Ile Phe Gly Asn Leu Asn Ile Ile Leu Val  
35 40 45  
Ser His Leu Asp Pro Lys Leu His Thr Pro Met Tyr Phe Phe Leu Thr  
50 55 60  
Asn Leu Ser Val Ile Asp Leu Cys Tyr Ile Thr Cys Thr Val Pro Gln  
65 70 75 80  
Met Leu Val Asn Leu Arg Ser Ile Arg Lys Val Ile Ser Phe Gly Gly  
85 90 95  
Cys Val Val Gln Leu Phe Met Phe Leu Ala Leu Gly Ala Thr Glu Cys  
100 105 110  
Val Leu Leu Pro Val Met Ser Phe Asp Arg Phe Val Ala Ile Cys Arg  
115 120 125  
Pro Leu His Tyr Ser Val Ile Met His Gln Arg Leu Cys Leu Gln Leu  
130 135 140  
Ala Ala Val Ser Trp Ile Ile Gly Phe Gly Asn Ser Val Trp Leu Ser  
145 150 155 160  
Ile Leu Thr Leu Gln Leu Pro Arg Cys Gly His Tyr Val Ile Asp His  
165 170 175  
Phe Leu Cys Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Val Asp Val  
180 185 190  
Thr Ala Asn Glu Ala Glu Leu Phe Phe Val Ser Val Phe Phe His Leu  
195 200 205  
Thr Pro Leu Ser Leu Ile Leu Thr Ser Tyr Ala Phe Ile Ala Arg Ala  
210 215 220  
Ile Leu Lys Ile Gln Ser Ala Glu Gly Arg Gln Lys Ala Phe Gly Thr  
225 230 235 240  
Cys Ser Ser His Leu Ile Val Val Ser Leu Phe Tyr Gly Thr Ala Leu  
245 250 255  
Ser Val Tyr Leu Leu Pro Pro Ser Pro His Ser Lys Asn Arg Arg Lys  
260 265 270  
Met Val Pro Leu Phe Tyr Gly Ile Ile Ala Pro Met Leu Asn Pro Leu  
275 280 285  
Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Asp Ala Phe Lys Arg Leu  
290 295 300  
Ile Lys Arg Val Phe Leu Ser Lys Asn  
305 310

<210> 1895  
<211> 317  
<212> PRT  
<213> Mus musculus

<400> 1895

Met	Trp	Leu	Gln	Val	Met	Glu	Lys	Glu	Asn	Thr	Ser	Ser	Phe	Glu	Gly
1				5					10					15	
Phe	Ile	Leu	Val	Gly	Phe	Ser	Asp	Arg	Pro	His	Leu	Glu	Leu	Ile	Leu
			20					25					30		
Phe	Val	Val	Val	Leu	Ser	Phe	Tyr	Leu	Leu	Thr	Leu	Leu	Gly	Asn	Met
			35				40					45			
Thr	Ile	Ile	Leu	Leu	Ser	Ala	Leu	Asp	Ser	Arg	Leu	His	Thr	Pro	Met
	50					55					60				
Tyr	Phe	Phe	Leu	Ala	Asn	Leu	Ser	Phe	Leu	Asp	Met	Cys	Phe	Thr	Thr
65					70					75					80
Gly	Ser	Ile	Pro	Gln	Met	Leu	Tyr	Asn	Leu	Trp	Gly	Pro	Asp	Lys	Thr
				85					90					95	
Ile	Ser	Tyr	Val	Gly	Cys	Ala	Ile	Gln	Leu	Tyr	Phe	Val	Leu	Ala	Leu
			100					105					110		
Gly	Gly	Val	Glu	Cys	Val	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr
		115					120					125			
Ala	Ala	Val	Cys	Lys	Pro	Leu	His	Tyr	Thr	Val	Ile	Met	His	Pro	Arg
	130					135					140				
Leu	Cys	Gly	Gln	Leu	Ala	Ser	Val	Ala	Trp	Leu	Ser	Gly	Phe	Gly	Asn
145					150					155					160
Ser	Leu	Ile	Met	Ala	Pro	Gln	Thr	Leu	Met	Leu	Pro	Arg	Cys	Gly	His
			165					170					175		
Arg	Arg	Val	Asp	His	Phe	Leu	Cys	Glu	Met	Pro	Ala	Leu	Ile	Gly	Met
		180						185				190			
Ala	Cys	Val	Asp	Thr	Met	Ala	Leu	Glu	Ala	Leu	Ala	Phe	Ala	Leu	Ala
		195					200					205			
Ile	Phe	Ile	Ile	Leu	Ala	Pro	Leu	Ile	Leu	Ile	Leu	Ile	Ser	Tyr	Gly
	210					215					220				
Tyr	Ile	Ala	Arg	Ala	Val	Phe	Arg	Ile	Lys	Ser	Ala	Ala	Gly	Arg	Arg
225					230					235					240
Lys	Ala	Phe	Asn	Thr	Cys	Ser	Ser	His	Leu	Ile	Val	Val	Ser	Leu	Phe
			245						250					255	
Tyr	Gly	Thr	Ile	Ile	Tyr	Met	Tyr	Leu	Gln	Pro	Ala	Asn	Thr	Tyr	Ser
		260						265					270		
Gln	Asp	Gln	Gly	Lys	Phe	Leu	Thr	Leu	Phe	Tyr	Thr	Ile	Val	Thr	Pro
		275					280					285			
Ser	Val	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu
	290					295					300				
Ala	Val	Lys	Lys	Val	Leu	Gly	Lys	Gly	Ser	Ile	Glu	Val			
305					310					315					

<210> 1896

<211> 314

<212> PRT

<213> Mus musculus

<400> 1896

Met	His	Ala	Leu	Thr	Val	Asn	Ala	Met	Ile	Asn	Gln	Ser	Cys	Gln	Glu
1				5					10					15	
Gln	Phe	Ile	Leu	Leu	Gly	Phe	Ser	Asp	Arg	Pro	Arg	Leu	Glu	Ser	Ile
			20					25					30		
Leu	Phe	Val	Phe	Val	Leu	Ile	Phe	Tyr	Leu	Val	Thr	Leu	Val	Gly	Asn
		35					40					45			
Ile	Ile	Ile	Ile	Leu	Val	Ser	Tyr	Leu	Asp	Pro	Cys	Leu	His	Thr	Pro

50		55		60	
Met	Tyr	Phe	Phe	Leu	Thr
65		70		75	80
Thr	Ser	Ser	Ile	Pro	Gln
		85		90	95
Ser	Ile	Ser	Tyr	Ile	Gly
		100		105	110
Leu	Gly	Gly	Thr	Glu	Cys
		115		120	125
Phe	Thr	Ala	Ile	Cys	Lys
		130		135	140
Gln	Leu	Cys	Trp	Thr	Leu
145		150		155	160
Asn	Ser	Leu	Val	Met	Ser
		165		170	175
Arg	Cys	Gln	Val	Arg	His
		180		185	190
Ile	Ala	Cys	Val	Asp	Thr
		195		200	205
Ser	Val	Ile	Ile	Val	Leu
		210		215	220
Ser	Tyr	Ile	Ala	Leu	Ala
225		230		235	240
Arg	Lys	Ala	Phe	Asn	Thr
		245		250	255
Phe	Tyr	Gly	Asn	Ile	Ile
		260		265	270
Ser	Gln	Asp	Gln	Gly	Lys
		275		280	285
Pro	Met	Leu	Asn	Pro	Val
		290		295	300
Gly	Ala	Leu	Lys	Arg	Leu
305		310			

<210> 1897  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1897	
Met	Gly
1	5
Leu	Leu
	20
Thr	Val
	35
Ile	Ala
	50
Gln	Leu
65	70
Val	Val
	85
Cys	Ala
	100
Val	Leu
	115
	10
	25
	40
	55
	70
	85
	100
	115
	120
	15
	30
	45
	60
	75
	90
	105
	110
	125



Pro	Leu	His	Tyr	Gln	Val	Leu	Met	Arg	Asn	Gln	Val	Cys	Leu	Val	Met
130						135					140				
Val	Gly	Ala	Ser	Trp	Phe	Ser	Gly	Ala	Leu	Val	Ala	Ser	Ile	Gln	Thr
145					150					155					160
Ser	Ile	Thr	Leu	Gln	Phe	Pro	Tyr	Cys	Ala	Ser	His	Thr	Val	Asp	His
				165					170					175	
Phe	Phe	Cys	Glu	Leu	Pro	Ala	Leu	Leu	Lys	Leu	Ser	Cys	Ala	Asp	Thr
			180					185					190		
Ser	Ala	Tyr	Glu	Leu	Ala	Leu	Ser	Ile	Ser	Gly	Val	Leu	Ile	Leu	Leu
		195					200					205			
Leu	Pro	Leu	Ser	Leu	Ile	Phe	Ile	Ser	Tyr	Gly	His	Val	Leu	Gly	Ala
	210					215					220				
Val	Leu	Leu	Met	Arg	Ser	Ala	Glu	Ala	Arg	His	Lys	Ala	Phe	Thr	Thr
225					230					235					240
Cys	Ser	Ser	His	Val	Thr	Val	Val	Gly	Leu	Phe	Phe	Gly	Ala	Ala	Val
			245						250					255	
Phe	Ile	Tyr	Met	Val	Pro	Gly	Ser	Tyr	His	Ser	Pro	Lys	Gln	Asp	Asn
		260						265					270		
Val	Val	Ser	Leu	Phe	Tyr	Ser	Leu	Ile	Thr	Pro	Thr	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Glu	Val	Arg	Met	Ser	Leu	Gly	Gln	Gly
	290				295						300				
Tyr	Gly	Gln	Val												
305															

<210> 1898  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1898

Met	Lys	Thr	Pro	Ser	Asn	Ser	Thr	Glu	Ala	Asp	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Phe	Ser	His	Thr	His	Ala	His	Ser	Leu	Leu	Leu	Ser	Val	Val	Leu
			20					25					30		
Val	Ile	Phe	Thr	Ala	Ser	Leu	Met	Gly	Asn	Thr	Leu	Met	Ile	Leu	Leu
		35					40					45			
Ile	Cys	Arg	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Ser
	50					55					60				
Gln	Leu	Ser	Leu	Met	Asp	Met	Met	Leu	Val	Ser	Thr	Ile	Val	Pro	Lys
65				70					75					80	
Met	Ala	Ala	Asn	Tyr	Leu	Thr	Ser	Thr	Arg	Ser	Ile	Ser	Pro	Ala	Gly
			85						90					95	
Cys	Gly	Ser	Gln	Ile	Phe	Leu	Phe	Leu	Thr	Leu	Ala	Gly	Gly	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe
		115					120					125			
Pro	Leu	Arg	Tyr	His	Val	Leu	Met	Asn	Pro	Lys	Leu	Cys	Ala	Tyr	Leu
	130					135					140				
Thr	Val	Gly	Ser	Trp	Leu	Leu	Gly	Ala	Ala	Asp	Gly	Leu	Met	Gln	Ala
145					150					155					160
Gly	Thr	Ile	Leu	Ser	Phe	Pro	Phe	Cys	His	Ser	Arg	Thr	Ile	Asn	His
			165						170					175	
Phe	Phe	Cys	Glu	Ala	Pro	Ser	Leu	Val	Arg	Leu	Ala	Cys	Ala	Asp	Thr
		180						185					190		
Lys	Val	Phe	Glu	Phe	Phe	Met	Tyr	Ile	Cys	Cys	Ile	Leu	Met	Leu	Leu



Ser Ile Phe Tyr Ser Val Val Thr Pro Ser Leu Asn Pro Val Ile Tyr  
 275 280 285  
 Cys Leu Arg Asn Lys Asp Met Lys Phe Ala Leu Gln Lys Leu Tyr Cys  
 290 295 300  
 Gly Arg Lys Tyr  
 305

<210> 1900  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1900  
 Met Ser Asn His Thr Arg Val Thr His Phe Ile Leu Arg Gly Phe Ser  
 1 5 10 15  
 Asp Val Pro Gln Leu Arg Leu Met Ala Ile Pro Val Phe Leu Leu Ile  
 20 25 30  
 Tyr Thr Phe Gly Leu Leu Gly Asn Leu Ser Ile Ile Thr Ala Val Thr  
 35 40 45  
 Arg Asp Ser Arg Leu His Ser Pro Met Tyr Phe Phe Leu Lys Asn Leu  
 50 55 60  
 Ser Phe Leu Asp Ile Cys Tyr Thr Ser Ala Thr Ile Pro Lys Ala Val  
 65 70 75 80  
 Val Ile Ser Leu Thr Gly Ser Gly Val Ile Ser Tyr Gln Glu Cys Ala  
 85 90 95  
 Ala Gln Leu Tyr Ile Phe Leu Thr Phe Ser Ser Ser Glu Cys Phe Leu  
 100 105 110  
 Leu Thr Ala Met Ala Tyr Asp Arg Cys Leu Ala Ile Leu Arg Pro Leu  
 115 120 125  
 Leu Tyr Gly Thr Ile Met Ser Gln Lys Tyr Cys Ser Ala Leu Val Val  
 130 135 140  
 Thr Ala Trp Val Gly Gly Ala Ile Tyr Ser Ala Phe His Thr Phe Asn  
 145 150 155 160  
 Thr Phe Ser Leu Pro Tyr Cys Gly Pro Asn Val Ile Asp His Phe Phe  
 165 170 175  
 Cys Asp Ile Pro Pro Val Met Arg Leu Ser Cys Thr Asp Tyr His Leu  
 180 185 190  
 Ser Glu Glu Val Gly Phe Ala Val Ser Ser Cys Ile Val Met Ser Ser  
 195 200 205  
 Phe Ala Leu Thr Val Val Ser Tyr Ile Gly Ile Val Ala Thr Val Leu  
 210 215 220  
 Arg Ile Pro Ser Val Glu Gly Arg Trp Lys Ala Phe Ser Thr Cys Ser  
 225 230 235 240  
 Ser His Leu Thr Thr Val Ile Leu Phe Tyr Gly Thr Gly Ser Phe Val  
 245 250 255  
 Tyr Leu Arg Pro Ala Ser Gln Tyr Ser Pro Thr Leu Gly Arg Leu Ala  
 260 265 270  
 Ser Ile Phe Tyr Ser Val Val Thr Pro Ser Leu Asn Pro Val Val Tyr  
 275 280 285  
 Cys Leu Arg Asn Lys Asp Met Lys Phe Ala Leu Gln Lys Leu Tyr Cys  
 290 295 300  
 Gly Arg Lys Tyr  
 305

<210> 1901

<211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 1901

Met	Asn	Leu	Gly	Asn	Glu	Ser	Ala	Pro	Lys	Ile	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Ser	His	Pro	Trp	Leu	Glu	Met	Pro	Leu	Phe	Ile	Met	Val	Leu
			20					25					30		
Val	Ala	Tyr	Val	Cys	Thr	Val	Leu	Gly	Asn	Ile	Ser	Ile	Ile	Val	Val
		35					40					45			
Ser	Arg	Arg	Asp	Pro	Gln	Leu	Asp	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Phe	Thr	Thr	Thr	Thr	Ile	Pro	Gln
65					70					75					80
Leu	Leu	Arg	Asn	Leu	Trp	Gly	Pro	Asp	Lys	Ser	Ile	Ser	Tyr	Gly	Gly
			85						90					95	
Cys	Val	Thr	Gln	Phe	Tyr	Ile	Phe	His	Phe	Leu	Gly	Ala	Thr	Glu	Cys
			100					105					110		
Ile	Leu	Leu	Ala	Val	Met	Ser	Leu	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	Arg	Tyr	Pro	Ala	Ile	Met	His	Gln	Gln	Leu	Cys	Ile	Leu	Leu
	130					135					140				
Val	Ser	Met	Ala	Trp	Leu	Ser	Gly	Leu	Ala	Asn	Ser	Leu	Leu	Gln	Ser
145					150					155					160
Thr	Leu	Thr	Val	Lys	Leu	Pro	Phe	Cys	Gly	Asn	Asn	Lys	Val	Asp	Asn
			165						170					175	
Phe	Leu	Cys	Glu	Val	Pro	Val	Met	Ile	Lys	Met	Ser	Cys	Ala	Asn	Thr
		180					185						190		
Ala	Phe	Asn	Ile	Ala	Met	Leu	Ser	Ile	Val	Gly	Thr	Phe	Tyr	Ser	Leu
	195					200						205			
Val	Pro	Leu	Ser	Leu	Ile	Leu	Ile	Ser	Tyr	Gly	Phe	Ile	Val	Ala	Thr
	210					215					220				
Val	Leu	Arg	Ile	Arg	Ser	Ser	Glu	Gly	Lys	Lys	Lys	Ala	Phe	Asn	Thr
225					230					235					240
Cys	Gly	Ser	His	Val	Val	Val	Val	Thr	Leu	Phe	Tyr	Gly	Pro	Val	Ile
			245						250					255	
Ser	Met	Tyr	Val	Gln	Pro	Ser	Ser	Ser	Asn	Ser	Gln	Asp	Lys	Asn	Lys
		260						265					270		
Leu	Leu	Ser	Leu	Phe	Tyr	Ser	Leu	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe
	275						280					285			
Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Met	Lys	Gly	Ala	Met	Lys	Arg	Leu
	290				295						300				
Leu	Val	Ser	Leu	Tyr	His	Lys	Gly	Ala	Glu	Gln	Thr				
305					310					315					

<210> 1902  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1902

Met	Glu	Ile	Asn	Asn	Lys	Ser	Ser	Glu	Thr	Asp	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Ser	Arg	Pro	Gln	Leu	Glu	His	Ile	Ile	Ser	Ala	Val	Val	Phe
			20					25					30		

Val	Phe	Tyr	Ile	Val	Thr	Leu	Val	Gly	Asn	Thr	Thr	Ile	Ile	Leu	Val
	35						40					45			
Ser	Tyr	Leu	Asp	Ser	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Val	Asp	Leu	Cys	Tyr	Thr	Thr	Ser	Ile	Val	Pro	Gln
65					70					75					80
Met	Leu	Val	Asn	Leu	Trp	Gly	Pro	Lys	Lys	Ser	Ile	Thr	Tyr	Gly	Gly
				85					90					95	
Cys	Val	Leu	Gln	Phe	Phe	Phe	Ala	Leu	Asp	Leu	Gly	Ala	Thr	Glu	Cys
			100					105					110		
Leu	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Gln
	115						120					125			
Pro	Leu	His	Tyr	Thr	Val	Ile	Met	His	Pro	Val	Leu	Cys	Gln	Lys	Met
	130					135					140				
Val	Leu	Ser	Ala	Trp	Leu	Gly	Gly	Leu	Gly	Ser	Ala	Leu	Ile	Leu	Cys
145					150					155					160
Ser	Leu	Thr	Leu	Lys	Leu	Pro	Arg	Cys	Gly	His	Arg	Glu	Val	Asp	Asn
				165					170					175	
Phe	Phe	Cys	Glu	Met	Pro	Ala	Leu	Ile	Lys	Met	Ala	Cys	Val	Tyr	Ser
			180					185					190		
Arg	Val	Ile	Glu	Ile	Val	Val	Phe	Thr	Leu	Gly	Val	Ile	Phe	Leu	Leu
	195						200					205			
Val	Pro	Leu	Ser	Leu	Ile	Leu	Ile	Ser	Tyr	Ala	Val	Ile	Thr	Gln	Ala
	210					215					220				
Val	Met	Lys	Ile	Lys	Ser	Ala	Thr	Arg	Trp	Arg	Lys	Val	Leu	Asn	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Thr	Val	Val	Thr	Leu	Phe	Tyr	Gly	Thr	Leu	Ile
				245					250					255	
Tyr	Met	Tyr	Met	Lys	Pro	Gln	Asn	Thr	Ile	Ser	His	Glu	Glu	Gly	Gln
			260					265					270		
Phe	Phe	Thr	Leu	Phe	Tyr	Thr	Ile	Val	Thr	Pro	Ser	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asn	Ala	Val	Lys	Arg	Ile
	290					295					300				
Leu	Gly	Met	Asp	Lys	His	Ser	Gly	Lys	Val						
305					310										

<210> 1903

<211> 316

<212> PRT

<213> Mus musculus

<400> 1903

Met	Ser	Val	Asn	Arg	Ile	Ser	Ala	Asp	Phe	Pro	Glu	Asp	Phe	Ile	Leu
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Met	Gly	Phe	Thr	Lys	Tyr	Pro	Trp	Leu	Asp	Leu	Pro	Leu	Phe	Phe	Val
			20					25				30			
Leu	Leu	Thr	Ser	Tyr	Met	Phe	Thr	Leu	Leu	Gly	Asn	Ile	Ala	Ile	Ile
		35					40					45			
Leu	Val	Ser	Gln	Leu	Asp	Ser	Gln	Leu	Gln	Ser	Pro	Met	Tyr	Phe	Phe
	50					55				60					
Leu	Thr	Ser	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Phe	Thr	Thr	Thr	Thr	Val
65					70					75					80
Pro	Gln	Met	Leu	Phe	Asn	Leu	Gln	Gly	Pro	Asn	Lys	Asn	Ile	Thr	Tyr
				85					90					95	
Ile	Gly	Cys	Met	Ala	Gln	Ala	Tyr	Val	Phe	His	Trp	Leu	Gly	Cys	Thr



Asn	His	Phe	Gly	Cys	Glu	Tyr	Ser	Ala	Val	Ile	Ser	Val	Ser	Cys	Ser
			180					185					190		
Asp	Ser	Ser	Phe	Ser	Gln	Leu	Ala	Cys	Leu	Val	Ile	Ser	Ile	Phe	Ser
		195					200					205			
Glu	Ser	Ser	Ser	Val	Leu	Ile	Thr	Leu	Ala	Ser	Tyr	Val	Phe	Ile	Val
	210					215					220				
Val	Thr	Ile	Ile	Lys	Met	Pro	Ser	Lys	Gly	Gly	Leu	Arg	Lys	Ala	Phe
	225				230					235					240
Ser	Thr	Cys	Thr	Ser	His	Leu	Thr	Ala	Ile	Ser	Ile	Phe	His	Gly	Ile
				245					250					255	
Ile	Leu	Leu	Leu	Tyr	Cys	Val	Pro	Asn	Ser	Asn	Ser	Ser	Arg	Leu	Phe
			260					265					270		
Val	Lys	Val	Ala	Thr	Ala	Leu	Tyr	Thr	Val	Met	Ile	Pro	Met	Leu	Asn
		275					280					285			
Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asp	Thr	Val	Arg
	290					295					300				
Arg	Leu	Ile	Ser	Ser	Lys	Leu	His	Ser	His	Leu	Thr				
	305				310					315					

<210> 1905  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1905

Met	Ile	Asn	Gln	Ser	Ser	Val	Thr	Thr	Phe	Ile	Leu	Val	Gly	Phe	Ser
1				5					10					15	
Glu	Tyr	Pro	His	Leu	Gln	Pro	Pro	Leu	Phe	Leu	Met	Val	Met	Thr	Ile
			20					25					30		
Tyr	Thr	Val	Thr	Leu	Val	Gly	Asn	Val	Gly	Ile	Ile	Leu	Val	Arg	Arg
		35				40						45			
Ile	Asn	Pro	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His	Leu
	50					55					60				
Ser	Phe	Leu	Asp	Ile	Cys	Tyr	Ser	Ser	Val	Val	Thr	Pro	Lys	Leu	Leu
	65				70					75					80
Glu	Ile	Leu	Ile	Val	Glu	His	Arg	Thr	Ile	Ser	Leu	Asn	Gly	Cys	Met
				85					90					95	
Thr	Gln	Phe	Phe	Phe	Gly	Cys	Ala	Cys	Val	Ile	Thr	Glu	Met	Phe	Met
			100					105					110		
Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Val	Cys	Asn	Pro	Leu
		115				120						125			
Leu	Tyr	Thr	Val	Ala	Met	Ser	His	Gln	Leu	Cys	Ala	Leu	Leu	Val	Ala
	130					135					140				
Gly	Ser	Tyr	Met	Trp	Gly	Gly	Leu	Cys	Ala	Val	Ile	Ile	Thr	Tyr	Thr
	145				150					155					160
Leu	Val	Glu	Leu	Ser	Tyr	Cys	Glu	Pro	Gly	Ile	Ile	Asp	His	Phe	Gly
				165					170					175	
Cys	Glu	Tyr	Ser	Ala	Ile	Val	Ser	Val	Ser	Cys	Ser	Asp	Pro	Ser	Phe
			180					185					190		
Ser	Gln	Met	Val	Cys	Leu	Val	Ile	Ser	Ile	Leu	Ser	Glu	Gly	Ser	Ser
		195					200					205			
Leu	Leu	Ile	Thr	Met	Ala	Ser	Tyr	Val	Phe	Ile	Val	Val	Thr	Ile	Ile
	210					215					220				
Lys	Met	Pro	Ser	Lys	Asp	Gly	Leu	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Thr
	225				230					235					240
Ser	His	Leu	Thr	Ala	Ile	Ser	Ile	Phe	His	Gly	Ile	Ile	Leu	Leu	Leu

				245					250				255			
Tyr	Cys	Ile	Pro	Asn	Ala	Lys	Ser	Ser	Lys	Leu	Leu	Val	Lys	Val	Ala	
			260					265					270			
Thr	Val	Leu	Tyr	Thr	Val	Leu	Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	
		275					280					285				
Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Thr	Val	Lys	Arg	Leu	Ile	Ser	
	290					295					300					
Ser	Lys	Leu	His	Ser	Gln	Thr	Ile									
305					310											

<210> 1906  
 <211> 303  
 <212> PRT  
 <213> Mus musculus

<400> 1906

Met	Tyr	Asn	His	Thr	Met	Thr	Glu	Phe	Ile	Leu	Phe	Gly	Leu	Thr	Gln	
1				5					10					15		
Asp	Pro	Glu	Gln	Gln	Lys	Ala	Ile	Phe	Gly	Val	Phe	Leu	Ile	Leu	Tyr	
			20					25					30			
Leu	Met	Thr	Leu	Met	Gly	Asn	Phe	Leu	Ile	Met	Val	Thr	Ile	Lys	Met	
		35				40						45				
Ser	Gln	Thr	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Phe	Tyr	Leu	Ser	
	50					55					60					
Phe	Ala	Asp	Ala	Cys	Phe	Ser	Thr	Thr	Thr	Ala	Pro	Arg	Leu	Ile	Ala	
65					70					75					80	
Asp	Ala	Leu	Leu	Gln	Lys	Lys	Ile	Ile	Thr	Tyr	Asn	Glu	Cys	Met	Thr	
				85					90					95		
Gln	Val	Phe	Ala	Val	His	Phe	Phe	Gly	Cys	Met	Glu	Ile	Phe	Val	Leu	
			100					105					110			
Ile	Leu	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	Arg	
		115				120						125				
Tyr	Thr	Ala	Ile	Met	Ser	Gln	Tyr	Ile	Cys	Gly	Val	Leu	Val	Ile	Leu	
	130					135					140					
Ala	Trp	Ile	Gly	Ser	Cys	Ile	His	Ser	Ser	Ala	Gln	Ile	Phe	Leu	Ala	
145					150					155					160	
Leu	Arg	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Tyr	Phe	Cys	
				165					170					175		
Asp	Leu	Gln	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Met	Asp	Thr	Tyr	Val	Ile	
		180						185					190			
Asn	Leu	Leu	Val	Val	Ser	Asn	Ser	Gly	Ala	Ile	Cys	Thr	Val	Ser	Phe	
	195						200					205				
Ile	Val	Leu	Leu	Ile	Ser	Tyr	Ile	Val	Ile	Leu	Tyr	Ser	Leu	Arg	Ser	
	210					215					220					
His	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Thr	Ser	His	
225					230					235					240	
Ile	Ile	Val	Val	Ile	Leu	Phe	Phe	Gly	Pro	Cys	Ile	Phe	Ile	Tyr	Thr	
				245					250					255		
Arg	Pro	Pro	Thr	Thr	Phe	Pro	Ile	Asp	Lys	Met	Val	Ser	Leu	Phe	Tyr	
			260					265					270			
Thr	Ile	Gly	Thr	Pro	Val	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	
		275					280					285				
Ala	Glu	Val	Lys	His	Ala	Met	Lys	Lys	Leu	Trp	Gly	Asn	Lys	Val		
	290					295					300					



<210> 1907  
 <211> 303  
 <212> PRT  
 <213> Mus musculus

<400> 1907

Met	His	Asn	Tyr	Ser	Val	Thr	Glu	Phe	Ile	Leu	Phe	Gly	Leu	Thr	Gln
1				5					10					15	
Asp	Pro	Glu	Lys	Gln	Lys	Ala	Ile	Phe	Gly	Val	Phe	Leu	Ile	Leu	Tyr
		20						25					30		
Leu	Met	Thr	Leu	Ile	Gly	Asn	Phe	Leu	Ile	Val	Met	Thr	Ile	Lys	Met
		35				40					45				
Ser	Gln	Thr	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Phe	Tyr	Leu	Ser
	50					55					60				
Phe	Ala	Asp	Ala	Cys	Phe	Ser	Thr	Thr	Thr	Ala	Pro	Arg	Leu	Ile	Ile
65					70					75					80
Asp	Ala	Leu	Ser	Gln	Lys	Lys	Ile	Ile	Thr	Tyr	Asn	Glu	Cys	Met	Thr
				85					90					95	
Gln	Val	Phe	Ala	Ala	His	Phe	Phe	Gly	Cys	Met	Glu	Ile	Phe	Val	Leu
			100					105					110		
Ile	Leu	Met	Ala	Ile	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	Arg
		115					120					125			
Tyr	Thr	Thr	Ile	Met	Ser	Gln	Arg	Ile	Cys	Gly	Ile	Leu	Val	Ile	Leu
	130					135						140			
Ala	Trp	Val	Gly	Ser	Cys	Ile	His	Ser	Ser	Ala	Gln	Ile	Phe	Leu	Ala
145					150					155					160
Leu	Arg	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Tyr	Phe	Cys
				165					170					175	
Asp	Leu	Gln	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Met	Asp	Thr	Tyr	Val	Ile
			180					185					190		
Asn	Leu	Leu	Val	Val	Ser	Asn	Ser	Gly	Ala	Ile	Cys	Met	Val	Ser	Phe
		195					200					205			
Thr	Leu	Leu	Leu	Ile	Ser	Tyr	Ile	Phe	Ile	Leu	Tyr	Ser	Leu	Arg	Asn
		210				215						220			
His	Ser	Val	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Thr	Ser	His
225					230					235					240
Phe	Ile	Val	Val	Val	Ile	Phe	Phe	Gly	Pro	Cys	Ile	Phe	Ile	Tyr	Thr
				245					250					255	
Arg	Pro	Pro	Thr	Thr	Phe	Pro	Ile	Asp	Lys	Met	Val	Ser	Val	Phe	Tyr
			260					265					270		
Thr	Ile	Gly	Thr	Pro	Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn
		275					280					285			
Ala	Glu	Val	Lys	Ile	Ala	Met	Lys	Lys	Leu	Trp	Cys	Gly	Lys	Val	
	290					295					300				

<210> 1908  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1908

Met	Glu	Leu	Tyr	Asn	Leu	Thr	Ser	Asn	Leu	Glu	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Glu	Asp	Pro	Glu	Leu	Gln	Pro	Val	Leu	Phe	Ala	Leu	Phe	Leu
		20						25					30		
Leu	Ile	Tyr	Leu	Leu	Thr	Val	Leu	Gly	Asn	Val	Leu	Ile	Ile	Leu	Ala

	35					40					45				
Ile	Ser	Cys	Asp	Ser	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Tyr
	50					55					60				
Asn	Leu	Ser	Leu	Ser	Asp	Met	Gly	Phe	Ser	Ser	Thr	Thr	Ile	Pro	Lys
65					70					75				80	
Met	Leu	Ile	Asn	Leu	His	Ala	His	Asn	Arg	Thr	Ile	Thr	Tyr	Ala	Glu
			85						90					95	
Cys	Leu	Thr	Gln	Val	Ser	Phe	Phe	Phe	Leu	Phe	Gly	Cys	Met	Asp	Ser
			100						105					110	
Val	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Trp	Val	Ala	Ile	Cys	His
			115					120						125	
Pro	Leu	His	Tyr	Gln	Val	Ile	Leu	Asn	Pro	Arg	Leu	Cys	Arg	Tyr	Leu
	130					135					140				
Val	Val	Met	Ser	Phe	Cys	Ile	Ser	Leu	Ile	Asp	Ser	Gln	Val	His	Cys
145					150					155				160	
Phe	Met	Val	Ser	Gln	Leu	Lys	Phe	Cys	Thr	Asn	Ile	Lys	Ile	Pro	His
				165					170					175	
Phe	Phe	Cys	Asp	Val	Pro	Glu	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr
			180						185					190	
Ser	Ile	Asn	Ser	Ile	Val	Ile	Phe	Leu	Val	Ser	Ile	Ile	Val	Gly	Phe
	195						200							205	
Leu	Pro	Ala	Ser	Gly	Ile	Phe	Tyr	Ser	Tyr	Tyr	Lys	Ile	Ile	Ser	Ser
	210					215					220				
Ile	Val	Arg	Val	Pro	Ser	Gly	Gly	Lys	Cys	Lys	Ala	Phe	Ser	Thr	
225					230				235					240	
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Cys	Leu	Phe	Tyr	Gly	Thr	Gly	Leu
			245						250					255	
Gly	Val	Tyr	Leu	Ser	Ser	Ser	Ile	Ser	Ser	Ser	Ser	Lys	Glu	Ser	Val
			260					265					270		
Val	Thr	Ser	Val	Met	Tyr	Thr	Met	Val	Val	Pro	Met	Ile	Asn	Pro	Phe
	275						280						285		
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Lys	Ala	Leu	Gln	Lys	Ile
	290					295					300				
Phe	Ser	Gln	Ile	Ile	Met	Leu	Pro	Thr	Tyr	Ile	Ile	Pro			
305					310					315					

<210> 1909  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1909															
Met	Glu	Thr	Val	Asn	Gln	Thr	Ile	Ile	Ser	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Asp	Asp	Pro	Thr	Leu	Gln	Pro	Phe	Ile	Phe	Thr	Leu	Phe	Leu
		20						25					30		
Thr	Ile	Tyr	Leu	Ile	Thr	Thr	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Ala
		35					40					45			
Val	Ser	Ser	Asp	Ser	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Cys
	50					55					60				
Asn	Leu	Ser	Phe	Asn	Asp	Ile	Cys	Leu	Ile	Asn	Thr	Thr	Ile	Pro	Lys
65					70					75				80	
Met	Leu	Val	Asn	Ile	Gln	Arg	Glu	Asp	His	Thr	Ile	Thr	Tyr	Thr	Ala
			85						90					95	
Cys	Leu	Ser	Gln	Val	Tyr	Leu	Ile	Leu	Asn	Phe	Ala	Gly	Ile	Glu	Asn
			100					105					110		

Cys	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
	115						120					125			
Pro	Leu	Lys	Tyr	Thr	Val	Ile	Met	Asn	Gln	Tyr	Val	Cys	Ala	Met	Leu
	130					135					140				
Leu	Leu	Phe	Ser	Leu	Phe	Leu	Ser	Ile	Val	His	Ala	Leu	Phe	His	Thr
145					150					155					160
Leu	Met	Ile	Leu	Leu	Ser	Phe	Cys	Thr	Glu	Ile	Glu	Ile	Pro	His	
				165				170						175	
Phe	Phe	Cys	Glu	Leu	Ala	Gln	Ile	Ile	Arg	Leu	Ala	Cys	Ser	Asp	Asn
			180					185						190	
Phe	Ile	Asn	Tyr	Leu	Leu	Val	Tyr	Thr	Val	Ser	Val	Leu	Phe	Phe	Gly
	195						200					205			
Val	Pro	Val	Phe	Gly	Ile	Ile	Leu	Ser	Tyr	Ile	His	Ile	Ile	Ser	Ser
	210					215					220				
Val	Leu	Lys	Met	Ser	Ser	Leu	Gly	Gly	Lys	Tyr	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Gly	Phe
				245					250					255	
Gly	Val	His	Ile	Ser	Ser	Ala	Phe	Thr	Asp	Ser	Pro	Lys	Lys	Thr	Val
			260					265						270	
Val	Ala	Ser	Val	Met	Tyr	Thr	Ile	Ile	Thr	Gln	Met	Leu	Asn	Pro	Phe
	275						280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Met	Lys	Lys	Ala	Phe	Arg	Lys	Ile
	290				295						300				
Thr	Ser	Lys	Ile	Pro	Phe	Leu	Leu								
305					310										

<210> 1910  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1910

Met	Glu	Pro	Tyr	Asn	Ser	Thr	Gly	Thr	Leu	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Glu	Asp	Pro	Glu	Leu	Gln	Phe	Ile	Leu	Phe	Ala	Leu	Phe	Leu
			20					25					30		
Leu	Ile	Tyr	Leu	Leu	Thr	Val	Leu	Gly	Asn	Val	Leu	Ile	Ile	Leu	Ala
	35					40						45			
Ile	Ser	Cys	Asp	Ser	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Tyr
	50				55						60				
Asn	Leu	Ser	Leu	Ala	Asp	Met	Gly	Phe	Ser	Ser	Thr	Thr	Ile	Pro	Lys
65				70						75					80
Met	Leu	Ile	Asn	Leu	His	Ala	His	Asn	Arg	Ser	Thr	Thr	Tyr	Ala	Glu
			85					90						95	
Cys	Leu	Thr	Gln	Val	Ser	Phe	Phe	Ile	Leu	Phe	Gly	Cys	Met	Asp	Ser
			100					105					110		
Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Trp	Val	Ala	Ile	Cys	His
	115						120					125			
Pro	Leu	His	Tyr	Gln	Val	Ile	Leu	Asn	Pro	Cys	Arg	Cys	Arg	Tyr	Leu
	130					135					140				
Val	Val	Met	Ser	Phe	Cys	Ile	Ser	Leu	Ile	Asp	Ser	Gln	Val	His	Cys
145					150					155					160
Phe	Met	Val	Ser	Gln	Leu	Thr	Phe	Cys	Thr	Asn	Ile	Glu	Ile	Pro	His
				165					170					175	
Phe	Phe	Cys	Asp	Val	Pro	Glu	Leu	Val	Lys	Leu	Ala	Cys	Ser	Asn	Thr





<210> 1913  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1913

Met	Asn	Asn	Met	Glu	Lys	Arg	Asn	Gln	Thr	Thr	Phe	Pro	Gly	Phe	Leu
1				5					10					15	
Leu	Leu	Gly	Leu	Thr	Glu	Asp	Pro	Lys	Leu	Gln	Pro	Val	Phe	Val	Ser
			20					25					30		
Leu	Phe	Phe	Ser	Ile	Tyr	Leu	Ile	Thr	Ile	Leu	Gly	Asn	Leu	Leu	Ile
		35					40					45			
Ile	Leu	Ile	Ser	Ile	Ser	Asp	Ala	His	Leu	His	Thr	Pro	Met	Tyr	Leu
	50					55					60				
Phe	Leu	Ser	Asn	Leu	Ser	Leu	Asn	Asp	Ile	Cys	Leu	Ser	Thr	Ser	Thr
65					70					75					80
Ile	Pro	Lys	Met	Leu	Val	Asn	Ile	Lys	Glu	Asn	Ser	Gln	Ser	Ile	Thr
				85					90					95	
Tyr	Lys	Gly	Cys	Leu	Thr	Gln	Met	Ser	Phe	Val	Leu	Ile	Phe	Cys	Gly
			100					105					110		
Met	Glu	Asn	Cys	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Ile	Ala
		115					120					125			
Ile	Cys	His	Pro	Leu	Arg	Tyr	Thr	Val	Ile	Met	Glu	Pro	Cys	Phe	Cys
	130					135					140				
Val	Leu	Leu	Ile	Leu	Leu	Ser	Leu	Leu	Ile	Ser	Val	Val	Asp	Thr	Leu
145					150					155					160
Met	His	Ser	Leu	Met	Val	Leu	Arg	Leu	Ser	Phe	Cys	Thr	His	Leu	Glu
				165					170					175	
Ile	Ser	Asn	Phe	Ile	Cys	Glu	Leu	Pro	Gln	Ile	Leu	Lys	Leu	Ala	Cys
			180					185					190		
Ser	Asp	Thr	Leu	Ile	Asp	Asn	Ile	Leu	Ile	Tyr	Leu	Ser	Ala	Cys	Ile
		195				200						205			
Phe	Thr	Gly	Ile	Pro	Ile	Ser	Gly	Ile	Val	Phe	Ser	Tyr	Val	His	Ile
		210				215					220				
Ile	Ser	Ser	Ile	Leu	Arg	Met	Ser	Ser	Leu	Glu	Gly	Lys	His	Lys	Ala
225					230					235					240
Phe	Thr	Thr	Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly
			245						250					255	
Thr	Ala	Phe	Gly	Val	Tyr	Ile	Thr	Ser	Ile	Ile	Met	Asp	Ser	Ser	Arg
			260					265					270		
Asn	Thr	Ala	Val	Ala	Ser	Val	Met	Tyr	Ser	Val	Val	Pro	Gln	Met	Leu
		275					280						285		
Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Met	Lys	Glu	Ala	Met
		290				295					300				
Gly	Lys	Phe	Phe	Ser	Arg	Met	Ala	Ser	Phe	Leu					
305					310					315					

<210> 1914  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1914

Met	Asn	Asn	Met	Glu	Lys	Arg	Asn	Gln	Thr	Ala	Phe	Pro	Gly	Phe	Leu
1				5					10					15	

Leu	Leu	Gly	Leu	Thr	Glu	Asp	Pro	Lys	Leu	Gln	Pro	Val	Leu	Val	Ser
			20					25					30		
Leu	Phe	Phe	Ser	Ile	Tyr	Leu	Val	Thr	Ile	Phe	Gly	Asn	Met	Leu	Ile
		35					40					45			
Val	Leu	Ile	Ser	Ile	Ser	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu
	50					55					60				
Leu	Leu	Ser	Asn	Leu	Ser	Leu	Asn	Asp	Ile	Cys	Leu	Ser	Thr	Ser	Thr
65					70					75					80
Ile	Pro	Lys	Met	Leu	Val	Asn	Ile	Gln	Glu	Asn	Ile	Gln	Ser	Ile	Thr
				85					90					95	
Tyr	Lys	Gly	Cys	Leu	Thr	Gln	Met	Asn	Phe	Val	Leu	Ile	Phe	Gly	Gly
			100					105					110		
Met	Glu	Asn	Cys	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala
		115					120					125			
Ile	Cys	His	Pro	Leu	Arg	Tyr	Thr	Val	Ile	Met	Glu	Pro	Cys	Phe	Cys
	130					135					140				
Ile	Leu	Leu	Ile	Leu	Leu	Ser	Leu	Leu	Ile	Ser	Ile	Val	Asp	Ser	Leu
145					150					155					160
Met	His	Ser	Leu	Met	Val	Leu	Arg	Leu	Pro	Phe	Cys	Thr	His	Leu	Glu
			165						170					175	
Ile	Pro	Ser	Phe	Phe	Cys	Glu	Leu	Pro	Lys	Met	Leu	Lys	Leu	Ala	Cys
		180						185					190		
Ser	Asp	Thr	Leu	Ile	Asp	Asn	Ile	Leu	Ile	Tyr	Ile	Ser	Ser	Cys	Ile
	195					200						205			
Phe	Ala	Gly	Ile	Pro	Leu	Ser	Gly	Ile	Val	Phe	Ser	Tyr	Ile	His	Ile
	210					215				220					
Met	Ser	Ser	Ile	Leu	Arg	Met	Ser	Ser	Ser	Glu	Gly	Lys	His	Lys	Ala
225					230					235					240
Phe	Thr	Thr	Cys	Gly	Ser	His	Leu	Ser	Val	Val	Phe	Leu	Phe	Tyr	Gly
			245						250					255	
Thr	Gly	Phe	Gly	Val	Tyr	Ile	Thr	Ser	Ile	Ile	Met	Asp	Ser	Ser	Arg
		260					265						270		
Lys	Thr	Ala	Val	Ala	Ser	Val	Met	Tyr	Ser	Val	Val	Pro	Gln	Met	Leu
		275				280						285			
Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Met	Lys	Asp	Thr	Met
	290				295						300				
Arg	Lys	Phe	Phe	Ser	Arg	Ile	Ala	Ser	Val	Leu					
305					310					315					

<210> 1915  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1915

Met	Glu	Val	Asp	Ser	Asn	Ser	Ser	Ser	Gly	Ser	Phe	Ile	Leu	Met	Gly
1				5					10					15	
Val	Ser	Asp	His	Pro	His	Leu	Glu	Ile	Ile	Phe	Phe	Ala	Val	Ile	Leu
			20					25					30		
Ala	Ser	Tyr	Leu	Leu	Thr	Leu	Val	Gly	Asn	Leu	Thr	Ile	Ile	Leu	Leu
		35				40						45			
Ser	Arg	Leu	Asp	Ala	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50				55						60				
Asn	Leu	Ser	Ser	Leu	Asp	Leu	Ala	Phe	Thr	Thr	Ser	Ser	Val	Pro	Gln
65					70					75					80
Met	Leu	Lys	Asn	Leu	Trp	Gly	Pro	Asp	Lys	Thr	Ile	Ser	Tyr	Gly	Gly





Leu	Val	Leu	Pro	Leu	Ser	Phe	Cys	Gly	Ser	Asn	Leu	Ile	Ala	His	Phe
				165					170					175	
Phe	Cys	Glu	Ile	Pro	Ser	Val	Leu	Ile	Leu	Ser	Cys	Ser	Pro	Thr	Phe
			180					185					190		
Ile	Asn	Asn	Val	Met	Thr	Val	Ile	Ala	Asp	Met	Phe	Leu	Thr	Gly	Leu
		195					200					205			
Asn	Phe	Leu	Leu	Thr	Met	Thr	Ser	Tyr	Val	Phe	Ile	Ile	Ser	Ser	Ile
		210				215					220				
Leu	Arg	Ile	Arg	Ser	Ala	Glu	Gly	Lys	Lys	Arg	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ser	Ala	His	Leu	Val	Val	Val	Thr	Leu	Tyr	Tyr	Ser	Thr	Ala	Leu	Tyr
				245					250					255	
Thr	Tyr	Val	Arg	Pro	Ala	Leu	Gly	Thr	Ala	Gly	Leu	Leu	Asp	Lys	Val
			260					265					270		
Ile	Ala	Ile	Pro	Tyr	Thr	Thr	Val	Thr	Pro	Ser	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Phe	Lys	Thr	Ser	Phe	Lys	Lys	Leu	Leu
		290				295					300				
Phe	Pro	Arg													
305															

<210> 1917

<211> 307

<212> PRT

<213> Mus musculus

<400> 1917

Met	Ala	Leu	Val	Asn	Gln	Ser	Val	Val	Thr	Met	Phe	Ile	Leu	Gln	Arg
1				5					10					15	
Phe	Val	Asp	Asp	Pro	Trp	Ile	Gln	Asp	Val	Leu	Phe	Cys	Leu	Phe	Phe
			20					25					30		
Ala	Leu	Phe	Met	Ala	Ala	Ile	Ala	Gly	Asn	Gly	Leu	Ile	Ile	Ala	Thr
		35					40					45			
Ile	His	Ser	Ser	Pro	Asn	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Val
	50					55				60					
Asn	Leu	Ser	Leu	Met	Asp	Val	Ile	Cys	Thr	Val	Thr	Val	Leu	Pro	Lys
65					70				75						80
Val	Leu	Gln	Ser	Leu	Val	Ala	Glu	Asn	Ser	Ile	Ser	Tyr	Gly	Gly	Cys
			85					90					95		
Leu	Thr	Gln	Met	Phe	Val	Phe	Ser	Trp	Val	Leu	Gly	Ser	Glu	Leu	Leu
			100					105					110		
Leu	Phe	Ser	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Arg	Pro
		115				120						125			
Leu	His	Tyr	Gly	Thr	Leu	Met	Ser	Gly	Lys	Val	Cys	Val	Ala	Leu	Ala
	130					135					140				
Thr	Phe	Val	Trp	Phe	Thr	Gly	Ala	Leu	Asn	Ser	Leu	Val	Leu	Thr	Cys
145					150					155					160
Leu	Met	Leu	Pro	Leu	Ser	Phe	Cys	Gly	Pro	Asn	Leu	Ile	Thr	His	Phe
				165				170						175	
Phe	Cys	Glu	Ile	Pro	Ser	Val	Leu	Ile	Leu	Ser	Cys	Ser	Pro	Thr	Phe
			180					185					190		
Ile	Asn	Asp	Ile	Met	Thr	Val	Ile	Thr	Asp	Met	Phe	Leu	Thr	Gly	Leu
		195					200					205			
Asn	Phe	Leu	Leu	Thr	Met	Thr	Ser	Tyr	Val	Phe	Ile	Ile	Ala	Ser	Ile
		210				215					220				
Leu	Arg	Ile	Arg	Ser	Ala	Glu	Gly	Lys	Lys	Arg	Ala	Phe	Ser	Thr	Cys

225					230					235				240	
Ser	Ala	His	Leu	Val	Val	Val	Thr	Leu	Tyr	Tyr	Ser	Thr	Val	Leu	Tyr
				245					250					255	
Thr	Tyr	Val	Arg	Pro	Ala	Leu	Gly	Thr	Ala	Gly	Phe	Leu	Asp	Lys	Leu
			260					265					270		
Ile	Ala	Val	Leu	Tyr	Thr	Thr	Val	Thr	Pro	Ser	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Phe	Lys	Ile	Ser	Phe	Lys	Lys	Leu	Leu
	290					295					300				
Phe	Pro	His													
305															

<210> 1918  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1918

Met	Ser	Ser	Lys	Tyr	Leu	Met	Ala	Trp	Ser	Thr	Gly	Gln	Asn	Leu	Ser
1			5						10					15	
Thr	Pro	Gly	Pro	Phe	Ile	Leu	Leu	Gly	Phe	Pro	Gly	Pro	Arg	Ser	Met
		20						25					30		
Arg	Ile	Gly	Leu	Phe	Leu	Leu	Phe	Leu	Val	Met	Tyr	Leu	Leu	Thr	Val
		35					40					45			
Ala	Gly	Asn	Leu	Ala	Ile	Ile	Ser	Leu	Val	Gly	Ala	His	Arg	Cys	Leu
	50					55				60					
Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Cys	Asn	Leu	Ser	Phe	Leu	Glu	Ile
65					70					75				80	
Trp	Phe	Thr	Thr	Ala	Cys	Val	Pro	Lys	Thr	Leu	Ala	Thr	Phe	Ala	Pro
				85					90					95	
Arg	Gly	Gly	Ala	Ile	Ser	Leu	Ala	Gly	Cys	Ala	Thr	Gln	Met	Tyr	Phe
			100					105					110		
Val	Phe	Ser	Leu	Gly	Cys	Thr	Glu	Tyr	Phe	Leu	Leu	Ala	Val	Met	Ala
	115					120						125			
Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Leu	Pro	Leu	Arg	Tyr	Gly	Gly	Ile
	130					135					140				
Met	Thr	Pro	Gly	Leu	Ala	Thr	Arg	Leu	Ala	Leu	Gly	Ser	Trp	Leu	Cys
145					150					155				160	
Gly	Phe	Ser	Ala	Ile	Val	Pro	Ala	Ala	Leu	Ile	Ala	Arg	Leu	Ser	
			165					170					175		
Phe	Cys	Gly	Ser	Arg	Val	Ile	Asn	His	Phe	Phe	Cys	Asp	Ile	Ser	Pro
			180				185						190		
Trp	Ile	Val	Leu	Ser	Cys	Thr	Asp	Thr	Gln	Val	Val	Glu	Leu	Val	Ser
	195						200					205			
Phe	Gly	Ile	Ala	Phe	Cys	Val	Ile	Leu	Gly	Ser	Cys	Gly	Ile	Thr	Leu
	210					215					220				
Val	Ser	Tyr	Ala	Tyr	Ile	Ile	Thr	Thr	Ile	Ile	Lys	Ile	Pro	Ser	Ala
225					230					235				240	
Gln	Gly	Arg	His	Arg	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Thr	Val
			245					250					255		
Val	Leu	Ile	Trp	Tyr	Gly	Ser	Thr	Ile	Phe	Leu	His	Val	Arg	Thr	Ser
		260					265					270			
Val	Glu	Ser	Ser	Leu	Asp	Leu	Thr	Lys	Ala	Val	Thr	Val	Leu	Asn	Thr
	275						280					285			
Ile	Val	Thr	Pro	Val	Leu	Asn	Pro	Phe	Ile	Tyr	Thr	Leu	Arg	Asn	Lys
	290					295					300				

Asp Val Lys Glu Ala Leu Arg Arg Thr Met Lys Gly Lys  
 305 310 315

<210> 1919  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1919  
 Met Ser Lys Gly Arg Glu Asn Glu Thr Gly Val Ser Glu Phe Leu Leu  
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 Leu Gly Ile Thr Asn Asp Pro Gln Gln Gln Ile Leu Phe Trp Ala  
 20 25 30  
 Phe Leu Cys Met Tyr Leu Val Thr Val Ala Gly Asn Thr Leu Ile Phe  
 35 40 45  
 Leu Ala Ile Ile Ser Asp Pro Arg Leu His Thr Pro Met Tyr Phe Phe  
 50 55 60  
 Leu Ala Asn Leu Ser Phe Val Asp Val Cys Phe Thr Thr Asn Leu Ile  
 65 70 75 80  
 Pro Arg Leu Leu Ala Gly His Val Ala Gly Thr Arg Thr Ile Ser Tyr  
 85 90 95  
 Val His Cys Leu Thr Gln Thr Tyr Phe Leu Ile Ser Phe Ala Asn Val  
 100 105 110  
 Asp Thr Phe Leu Leu Ala Ala Met Ala Leu Asp Arg Phe Val Ala Ile  
 115 120 125  
 Cys Tyr Pro Leu Gln Tyr His Thr Ile Ile Thr Pro Gln Leu Cys Val  
 130 135 140  
 Gly Leu Ala Ala Val Val Trp Met Cys Ser Ala Leu Ile Ser Leu Met  
 145 150 155 160  
 His Thr Leu Leu Met Ser Arg Leu Ser Phe Cys Ser Ser Ile Pro Glu  
 165 170 175  
 Ile Ser His Phe Tyr Cys Asp Ala Tyr Leu Leu Met Lys Leu Ala Cys  
 180 185 190  
 Ser Asp Thr Arg Val Asn Gln Leu Val Phe Leu Gly Ala Val Val Leu  
 195 200 205  
 Phe Val Ala Pro Cys Ile Leu Ile Val Val Ser Tyr Val Arg Ile Thr  
 210 215 220  
 Met Val Val Leu Gln Ile Pro Ser Ala Lys Gly Arg His Lys Thr Phe  
 225 230 235 240  
 Ser Thr Cys Ser Ser His Leu Ser Val Val Thr Leu Phe Tyr Gly Thr  
 245 250 255  
 Val Leu Gly Ile Tyr Ile Arg Pro Pro Asp Ser Phe Ser Thr Gln Asp  
 260 265 270  
 Thr Val Ala Thr Ile Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro  
 275 280 285  
 Phe Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Glu Ser Val Thr Arg  
 290 295 300  
 Leu Leu Asn Arg Gly Ser Lys Ser Ser  
 305 310

<210> 1920  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1920

Met	Ser	Lys	Gly	Arg	Glu	Asn	Glu	Thr	Gly	Val	Ser	Glu	Phe	Leu	Leu
1				5					10					15	
Leu	Gly	Ile	Thr	Asn	Asp	Pro	Gln	Gln	Gln	Gln	Ile	Leu	Phe	Trp	Ala
			20					25					30		
Phe	Leu	Cys	Met	Tyr	Leu	Val	Thr	Val	Ala	Gly	Asn	Thr	Leu	Ile	Phe
		35					40					45			
Leu	Ala	Ile	Ile	Ser	Asp	Pro	Cys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe
	50					55					60				
Leu	Ala	Asn	Leu	Ser	Phe	Val	Asp	Val	Cys	Phe	Thr	Thr	Asn	Leu	Ile
65					70					75					80
Pro	Arg	Leu	Leu	Ala	Gly	His	Val	Ala	Gly	Thr	Arg	Thr	Ile	Ser	Tyr
				85					90					95	
Ala	Gln	Cys	Leu	Thr	Gln	Met	Phe	Phe	Met	Ile	Ser	Phe	Ala	His	Val
			100					105					110		
Asp	Thr	Leu	Leu	Leu	Ala	Ala	Met	Ala	Leu	Asp	Arg	Phe	Val	Ala	Ile
		115					120					125			
Cys	Tyr	Pro	Leu	Gln	Tyr	His	Thr	Ile	Ile	Thr	Pro	Gln	Leu	Cys	Val
	130					135					140				
Gly	Leu	Ala	Ala	Val	Val	Trp	Met	Cys	Ser	Ala	Leu	Ile	Ser	Leu	Met
145					150					155					160
His	Thr	Leu	Leu	Met	Ser	Arg	Leu	Arg	Phe	Cys	Ser	Ser	Ile	Pro	Glu
				165					170					175	
Ile	Ser	His	Phe	Tyr	Cys	Asp	Ala	Tyr	Leu	Leu	Met	Lys	Leu	Ala	Cys
			180					185					190		
Ser	Asp	Thr	Arg	Val	Asn	Gln	Leu	Ala	Ser	Leu	Gly	Thr	Leu	Phe	Leu
		195					200					205			
Phe	Val	Ala	Pro	Cys	Ile	Leu	Ile	Val	Val	Ser	Tyr	Val	Arg	Ile	Thr
	210					215					220				
Met	Ala	Val	Phe	Gln	Ile	Pro	Ser	Ala	Lys	Gly	Arg	His	Lys	Ala	Phe
225					230					235					240
Ser	Thr	Cys	Ser	Ser	His	Leu	Ser	Val	Val	Ile	Leu	Phe	Tyr	Gly	Thr
				245					250					255	
Ile	Leu	Gly	Ile	Tyr	Ile	Arg	Pro	Pro	Gly	Ser	Phe	Ser	Ile	Gln	Val
			260					265					270		
Ser	Val	Ala	Thr	Ile	Met	Tyr	Thr	Val	Phe	Thr	Pro	Met	Leu	Asn	Pro
		275					280					285			
Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Glu	Thr	Val	Thr	Arg
	290					295					300				
Ile	Leu	Asn	Arg	Asp	Ser	Lys	Pro	Ser							
305					310										

<210> 1921

<211> 305

<212> PRT

<213> Mus musculus

<400> 1921

Met	Asn	Cys	Ser	Gln	Ala	Pro	Thr	Leu	Ile	Leu	Leu	Gly	Leu	Ser	Ser
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Asp	Ala	Glu	Lys	Trp	Gln	Pro	Leu	Phe	Ser	Ile	Phe	Leu	Val	Ile	Tyr
			20					25					30		
Leu	Leu	Gly	Leu	Leu	Gly	Asn	Leu	Leu	Leu	Leu	Leu	Ala	Ile	Gly	Thr
		35				40						45			
Asp	Val	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Gln	Leu	Ser
	50					55					60				

Phe Val Asp Leu Cys Phe Ile Thr Thr Thr Ala Pro Lys Met Leu Glu  
 65 70 75 80  
 Ala Leu Trp Thr Gly Asp Gly Ser Ile Ser Phe Ser Gly Cys Leu Thr  
 85 90 95  
 Gln Leu Tyr Phe Phe Ala Val Phe Ala Asp Met Asp Asn Leu Leu Leu  
 100 105 110  
 Ala Val Met Ala Ile Asp Arg Tyr Ala Ala Ile Cys His Pro Leu Arg  
 115 120 125  
 Tyr Ser Ala Leu Met Thr Pro Phe Arg Cys Gly Val Leu Val Ser Gly  
 130 135 140  
 Ser Trp Gly Val Thr Asn Cys Val Ser Leu Thr His Thr Leu Leu Leu  
 145 150 155 160  
 Ser Lys Leu Tyr Phe His Thr Asn Gln Glu Ile Pro His Phe Phe Cys  
 165 170 175  
 Glu Phe Gly Pro Leu Leu Leu Leu Ser Cys Ser Asp Thr His Leu Asn  
 180 185 190  
 Lys Ile Leu Val Ile Ile Leu Val Gly Ile Leu Gly Ile Ser Ala Val  
 195 200 205  
 Leu Cys Ile Val Ser Ser Tyr Gly Cys Ile Phe Tyr Ala Val Ala Lys  
 210 215 220  
 Val Pro Ser Ala Gln Gly Lys Arg Lys Ala Leu Ser Thr Cys Ser Ser  
 225 230 235 240  
 His Leu Ser Val Val Leu Leu Phe Tyr Ser Thr Val Phe Ala Thr Tyr  
 245 250 255  
 Leu Lys Pro Pro Ser Ser Ser Arg Ser Ser Glu Glu Val Val Ala Ala  
 260 265 270  
 Val Met Tyr Ser Leu Val Thr Pro Thr Leu Asn Pro Phe Ile Tyr Ser  
 275 280 285  
 Leu Arg Asn Lys Asp Val Lys Ser Ser Leu Arg Arg Ile Leu Asn Met  
 290 295 300  
 Glu  
 305

<210> 1922  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1922  
 Met Gly Ile Leu Ser Thr Gly Asn Gln Thr Val Thr Glu Phe Val Leu  
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 Leu Gly Phe His Glu Val Pro Gly Leu His Leu Leu Phe Phe Ser Val  
 20 25 30  
 Phe Thr Ile Leu Tyr Ala Ser Ile Ile Thr Gly Asn Met Leu Ile Ala  
 35 40 45  
 Val Val Val Val Ser Ser Gln Arg Leu His Thr Pro Met Tyr Phe Phe  
 50 55 60  
 Leu Val Asn Leu Ser Phe Ile Glu Ile Val Tyr Thr Ser Thr Val Val  
 65 70 75 80  
 Pro Lys Met Leu Glu Gly Phe Leu Gln Glu Ala Thr Ile Ser Val Ala  
 85 90 95  
 Gly Cys Leu Leu Gln Phe Phe Val Phe Gly Ser Leu Ala Thr Asp Glu  
 100 105 110  
 Cys Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys  
 115 120 125  
 His Pro Leu Arg Tyr Pro His Leu Met Gly Pro Gln Trp Cys Leu Gly

130		135		140
Leu Val Leu Thr Val	Trp Leu Ser Gly Phe Met	Val Asp Gly Leu Val		
145	150	155	160	
Val Ala Leu Met Ala	Gln Leu Arg Phe Cys Gly	Pro Asn Leu Val Asp		
	165	170	175	
His Phe Tyr Cys Asp	Phe Ser Pro Leu Met	Val Leu Ala Cys Ser Asp		
	180	185	190	
Thr Gln Val Ala Gln	Val Thr Thr Phe Val	Leu Ser Val Val Phe Leu		
	195	200	205	
Thr Val Pro Phe Gly	Leu Val Leu Ile Ser Tyr	Ala Gln Ile Val Val		
	210	215	220	
Thr Val Leu Arg Val	Pro Ser Gly Thr Arg	Arg Thr Lys Ala Phe Ser		
225	230	235	240	
Thr Cys Ser Ser His	Leu Ala Val Val Ser	Thr Phe Tyr Gly Thr Leu		
	245	250	255	
Met Val Leu Tyr Ile	Val Pro Ser Ala Val	His Ser Gln Leu Leu Ser		
	260	265	270	
Lys Val Ile Ala Leu	Leu Tyr Thr Val Val	Thr Pro Ile Phe Asn Pro		
	275	280	285	
Val Ile Tyr Thr Leu	Arg Asn Gln Glu Val	Gln Gln Ala Leu Arg Arg		
	290	295	300	
Leu Leu Tyr Cys Lys	Pro Thr Glu Met			
305	310			

<210> 1923  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1923

Met Gly Thr Asn Ser	Ser Leu Val Thr Glu Phe Val	Leu Val Gly Phe
1	5	10
Ser Arg Leu Val His	Leu Gln Gly Ile Leu Phe Ser	Leu Phe Leu Thr
	20	25
Val Tyr Leu Leu Thr	Val Ala Gly Asn Leu Leu Ile	Val Ala Leu Val
	35	40
Ser Thr Asp Ala Ala	Leu Gln Ser Pro Met Tyr Phe	Phe Leu Arg Ile
	50	55
Leu Ser Ala Leu Glu	Ile Cys Tyr Thr Ser Val Thr	Val Pro Leu Leu
65	70	75
Leu His His Leu Leu	Thr Gly Arg Arg His Ile Ser	Arg Ser Gly Cys
	85	90
Ala Leu Gln Met Phe	Phe Phe Leu Phe Phe Gly Ala	Thr Glu Cys Cys
	100	105
Leu Leu Ala Ala Met	Ala Tyr Asp Arg Tyr Ala Ala	Ile Cys Glu Pro
	115	120
Leu Arg Tyr Gln Val	Leu Leu Ser Arg Arg Val Cys	Val Gln Leu Ala
	130	135
Gly Ala Ala Trp Ser	Cys Gly Ala Leu Val Gly Leu	Gly His Thr Ser
145	150	155
Phe Ile Phe Ser Leu	Pro Phe Cys Gly Pro Asn Ala	Val Pro His Phe
	165	170
Phe Cys Glu Ile Gln	Pro Val Leu Gln Leu Val Cys	Gly Asp Thr Ser
	180	185
Leu Asn Glu Leu Gln	Ile Ile Leu Ala Ala Ala Leu	Ile Ile Leu Cys
	195	200
		205

Pro	Phe	Gly	Leu	Ile	Leu	Ser	Ser	Tyr	Gly	Arg	Ile	Leu	Val	Thr	Ile
210						215					220				
Phe	Arg	Ile	Pro	Ser	Ala	Ala	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ser	Ser	His	Leu	Val	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ala	Ile	Phe
			245						250					255	
Ile	Tyr	Ile	Arg	Pro	Lys	Ala	Ser	Tyr	Asp	Pro	Thr	Thr	Asp	Pro	Leu
			260					265					270		
Leu	Ser	Leu	Phe	Tyr	Ala	Val	Ile	Thr	Pro	Ile	Leu	Asn	Pro	Val	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Ala	Asp	Val	Lys	Ala	Ala	Leu	Lys	Arg	Ser	Ile
	290					295					300				
Gln	Lys	Met	Gly	Pro	Ser	Glu	Ile								
305						310									

<210> 1924  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1924

Met	Met	Asn	Cys	Ser	Gln	Ala	Pro	Gly	Phe	Ile	Leu	Leu	Gly	Leu	Ser
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Ser	Asn	Ser	Glu	Lys	Trp	Gln	Pro	Leu	Phe	Ser	Ile	Phe	Leu	Val	Leu
			20					25					30		
Tyr	Leu	Leu	Gly	Leu	Leu	Gly	Asn	Leu	Leu	Leu	Leu	Leu	Ala	Ile	Gly
		35					40						45		
Thr	Asp	Val	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Gln	Leu
	50					55					60				
Ser	Leu	Val	Asp	Leu	Cys	Phe	Ile	Thr	Thr	Thr	Ala	Pro	Lys	Met	Leu
65					70					75					80
Glu	Thr	Leu	Trp	Thr	Gly	Asp	Gly	Ser	Ile	Ser	Phe	Ser	Gly	Cys	Leu
			85					90						95	
Thr	Gln	Leu	Tyr	Phe	Phe	Ala	Val	Phe	Ala	Asp	Met	Asp	Asn	Leu	Leu
		100						105					110		
Leu	Ala	Val	Met	Ala	Ile	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	His	Pro	Leu
		115					120					125			
Leu	Tyr	Pro	Leu	Leu	Met	Thr	Pro	Cys	Arg	Cys	Arg	Val	Leu	Val	Ser
	130					135					140				
Gly	Ser	Trp	Gly	Val	Ala	His	Cys	Val	Ser	Leu	Thr	His	Ile	Leu	Leu
145					150					155					160
Leu	Ser	Gln	Leu	Tyr	Phe	His	Thr	Asn	Gln	Glu	Ile	Pro	His	Phe	Phe
			165					170						175	
Cys	Asp	Phe	Gly	Pro	Leu	Leu	Leu	Leu	Ser	Cys	Ser	Asp	Ala	His	Leu
		180						185					190		
Asn	Glu	Ser	Leu	Met	Met	Ala	Leu	Ala	Gly	Val	Leu	Gly	Ile	Ser	Ala
		195					200					205			
Leu	Leu	Cys	Ile	Val	Ser	Ser	Tyr	Gly	Cys	Ile	Phe	Tyr	Ala	Val	Ala
	210					215					220				
Lys	Val	Pro	Ser	Ala	Gln	Gly	Lys	Arg	Lys	Ala	Leu	Ala	Thr	Cys	Ser
225					230					235					240
Ser	His	Leu	Ser	Val	Val	Leu	Leu	Phe	Tyr	Ser	Thr	Val	Phe	Ala	Thr
			245						250					255	
Tyr	Leu	Lys	Pro	Pro	Ser	Ser	Ser	Arg	Ser	Ser	Gly	Glu	Val	Val	Ala
			260					265					270		
Ala	Val	Met	Tyr	Thr	Leu	Val	Thr	Pro	Thr	Leu	Asn	Pro	Phe	Ile	Tyr

	275		280		285
Ser	Leu Arg Asn Lys Asp	Val Lys Ser Ser Leu Arg	Arg Arg Ile Leu Asn		
	290	295	300		
Met	Val Lys Ser Gln Asp				
305	310				

<210> 1925  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1925

Met	Asn	Cys	Ser	Lys	Ala	Pro	Gly	Phe	Ile	Leu	Leu	Gly	Leu	Ser	Ser
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Asp	Pro	Glu	Lys	Trp	Gln	Pro	Leu	Phe	Asn	Ile	Phe	Leu	Cys	Leu	Tyr
			20					25					30		
Leu	Leu	Gly	Leu	Leu	Gly	Asn	Leu	Leu	Leu	Leu	Leu	Ala	Ile	Gly	Thr
		35				40						45			
Asp	Val	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Gln	Leu	Ser
	50				55						60				
Leu	Val	Asp	Leu	Cys	Phe	Ile	Thr	Thr	Thr	Ala	Pro	Lys	Met	Leu	Glu
65				70					75					80	
Ala	Leu	Trp	Thr	Gly	Asp	Gly	Ser	Ile	Ser	Phe	Ser	Gly	Cys	Leu	Thr
			85					90					95		
Gln	Phe	Tyr	Phe	Phe	Ala	Val	Phe	Ala	Asp	Met	Asp	Asn	Leu	Leu	Leu
		100					105						110		
Ala	Val	Met	Ala	Ile	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	His	Pro	Leu	Phe
	115					120						125			
Tyr	Pro	Phe	Leu	Met	Thr	Pro	Cys	Arg	Cys	Glu	Val	Leu	Ala	Ser	Gly
	130					135				140					
Ser	Trp	Gly	Ile	Ala	His	Cys	Val	Ser	Leu	Phe	Tyr	Thr	Leu	Leu	Leu
145				150					155					160	
Ser	Gln	Phe	Tyr	Tyr	His	Thr	Asn	Gln	Gly	Ile	Pro	His	Phe	Phe	Cys
			165					170					175		
Asp	Ser	Arg	Pro	Leu	Leu	Leu	Leu	Ser	Cys	Ser	Asp	Thr	His	Leu	Ser
		180					185					190			
Glu	Gly	Leu	Met	Met	Ala	Leu	Ser	Gly	Val	Leu	Gly	Met	Ser	Ser	Val
	195					200					205				
Leu	Cys	Leu	Val	Ser	Ser	Tyr	Gly	Cys	Ile	Phe	Tyr	Ala	Val	Ala	Arg
	210				215					220					
Val	Pro	Ser	Ala	Gln	Gly	Lys	Arg	Lys	Ser	Leu	Ala	Thr	Cys	Ser	Ser
225				230					235					240	
His	Leu	Ser	Val	Val	Leu	Leu	Phe	Tyr	Ser	Thr	Val	Phe	Ala	Thr	Tyr
			245					250						255	
Leu	Lys	Pro	Pro	Ser	Thr	Ser	His	Ser	Ser	Ala	Glu	Val	Val	Ala	Ala
		260					265					270			
Val	Met	Tyr	Thr	Leu	Val	Thr	Pro	Thr	Leu	Asn	Pro	Phe	Ile	Tyr	Ser
	275					280						285			
Leu	Arg	Asn	Lys	Asp	Val	Lys	Ser	Ser	Leu	Arg	Lys	Ile	Leu	Asn	Met
	290				295						300				
Asp	Lys	Phe	Gln	Gly											
305															

<210> 1926  
 <211> 309



<212> PRT  
<213> Mus musculus

<400> 1926

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Met Asn Cys Ser Gln Ala Pro Thr Phe Ile Leu Leu Gly Leu Ser Ser
 1          5          10          15
Asp Ala Glu Lys Trp Gln Pro Leu Phe Ser Ile Phe Leu Val Leu Tyr
 20          25          30
Leu Leu Gly Leu Leu Gly Asn Leu Leu Leu Leu Ala Ile Gly Thr
 35          40          45
Asp Val His Leu His Thr Pro Met Tyr Phe Phe Leu Ser Gln Leu Ser
 50          55          60
Leu Val Asp Leu Cys Phe Ile Thr Thr Thr Ala Pro Lys Met Leu Glu
 65          70          75          80
Ala Leu Trp Thr Gly Asp Gly Ser Ile Ser Phe Ser Gly Cys Leu Thr
 85          90          95
Gln Leu Tyr Phe Phe Ala Val Phe Ala Asp Met Asp Asn Leu Leu Leu
100          105          110
Ala Val Met Ala Ile Asp Arg Tyr Ala Ala Ile Cys His Pro Leu Leu
115          120          125
Tyr Pro Leu Leu Met Thr Pro Cys Arg Cys Arg Val Leu Val Ser Gly
130          135          140
Ser Trp Gly Val Ala His Cys Val Ser Leu Thr His Thr Leu Leu Phe
145          150          155          160
Ser Lys Leu Tyr Phe His Asn Asn Gln Glu Ile Pro His Phe Phe Cys
165          170          175
Asp Phe Gly Pro Leu Leu Leu Leu Ser Cys Ser Asp Thr Tyr Leu Asn
180          185          190
Glu Ser Leu Met Met Ala Leu Ser Gly Leu Leu Ala Ile Ser Ala Phe
195          200          205
Leu Cys Ile Val Ser Ser Tyr Gly Cys Ile Phe Tyr Ala Val Ala Lys
210          215          220
Val Pro Ser Ala Gln Gly Lys Arg Lys Ala Leu Ala Thr Cys Ser Ser
225          230          235          240
His Leu Ser Val Val Leu Leu Phe Tyr Ser Thr Val Phe Ala Thr Tyr
245          250          255
Leu Lys Pro Pro Ser Ser Ser His Ser Ser Gln Glu Val Val Ala Ala
260          265          270
Val Met Tyr Thr Leu Val Thr Pro Thr Leu Asn Pro Phe Ile Tyr Ser
275          280          285
Leu Arg Asn Lys Asp Val Lys Ser Ser Leu Arg Arg Ile Leu Asn Met
290          295          300
Val Lys Ser Gln Asp
305
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<210> 1927  
<211> 310  
<212> PRT  
<213> Mus musculus

<400> 1927

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Met Ser Gly Val Ser Glu Asn Gln Thr Thr Trp Leu Thr Leu Val Gly
 1          5          10          15
Phe Gly Lys Leu Lys His Leu Gly Phe Leu Pro Phe Ala Leu Phe Leu
 20          25          30
Ala Ile Tyr Val Ala Thr Val Gly Gly Asn Ile Leu Ile Val Leu Ala
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Tyr	Thr	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	Tyr	Pro	Leu
	115						120					125			
Arg	Tyr	Ser	Ile	Ile	Met	Ser	His	Arg	Val	Cys	Ala	Ile	Leu	Ala	Thr
	130					135					140				
Gly	Thr	Ser	Phe	Phe	Gly	Cys	Ile	Gln	Ala	Thr	Phe	Leu	Thr	Thr	Leu
145					150					155					160
Thr	Phe	Gln	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Glu	Val	Asp	Tyr	Tyr	Phe
			165						170					175	
Cys	Asp	Ile	Pro	Val	Met	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr	Ser	Ala
			180					185					190		
Leu	Glu	Met	Val	Gly	Phe	Ile	Ser	Val	Gly	Leu	Met	Pro	Leu	Ser	Cys
	195						200					205			
Phe	Leu	Leu	Ile	Leu	Thr	Ser	Tyr	Ser	Cys	Ile	Val	Cys	Ser	Ile	Leu
	210					215					220				
Gln	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Arg	Arg	Ala	Phe	Ser	Thr	Cys	Ser
225					230					235					240
Ala	His	Leu	Thr	Ala	Ile	Leu	Leu	Phe	Tyr	Met	Pro	Val	Val	Leu	Ile
				245					250					255	
Tyr	Leu	Arg	Pro	Thr	Pro	Ser	Pro	Trp	Leu	Asp	Ala	Thr	Val	Gln	Val
		260						265					270		
Leu	Asn	Asn	Leu	Val	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu
	275						280					285			
Arg	Asn	Lys	Glu	Val	Lys	Ala	Ser	Leu	Trp	Lys	Val	Leu	Arg	Lys	Pro
	290					295					300				
Ala	Phe	Ala	Pro	Glu	Gln	Leu									
305					310										

<210> 1929  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1929

Met	Ala	Ala	Gly	Asn	His	Cys	Thr	Val	Thr	Glu	Phe	Phe	Leu	Val	Gly
1				5					10					15	
Leu	Ser	Glu	Lys	Pro	Glu	Phe	Gln	Leu	Pro	Leu	Phe	Leu	Leu	Phe	Leu
		20						25					30		
Gly	Ile	Tyr	Leu	Ile	Thr	Val	Thr	Gly	Asn	Val	Gly	Met	Ile	Thr	Leu
	35						40					45			
Ile	Gly	Leu	Ser	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Val	Arg
	50					55					60				
Ser	Leu	Ser	Phe	Ile	Asp	Phe	Cys	Gln	Ser	Thr	Val	Val	Ile	Pro	Lys
65					70					75					80
Met	Leu	Met	Ser	Phe	Leu	Thr	Glu	Lys	Asn	Ile	Ile	Ser	Tyr	Ser	Gly
			85						90					95	
Cys	Met	Val	Gln	Leu	Tyr	Phe	Phe	Phe	Ile	Phe	Gly	Ile	Ala	Glu	Cys
		100						105					110		
Tyr	Thr	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
	115					120						125			
Pro	Leu	Leu	Tyr	Asn	Val	Thr	Met	Ser	Tyr	Gln	Ile	Tyr	Asn	Ser	Leu
	130					135					140				
Ile	Ser	Gly	Ser	Tyr	Ile	Phe	Ala	Val	Val	Cys	Ser	Ser	Leu	Ile	Thr
145					150					155					160
Gly	Phe	Met	Phe	Arg	Ile	Gln	Phe	Cys	Asn	Leu	Asp	Val	Ile	Asn	His
			165						170					175	
Tyr	Phe	Cys	Asp	Leu	Leu	Pro	Leu	Leu	Asn	Leu	Ala	Ser	Ser	Asn	Ile





<210> 1932  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1932

Met	Thr	Asn	His	Thr	Met	Val	Thr	Glu	Phe	Thr	Leu	Leu	Gly	Ile	Pro
1				5					10					15	
Glu	Thr	Glu	Gly	Leu	Glu	Asn	Ala	Leu	Leu	Phe	Leu	Phe	Ser	Thr	Met
		20						25					30		
Tyr	Ala	Cys	Ala	Leu	Leu	Gly	Asn	Phe	Leu	Ile	Leu	Thr	Ala	Ile	Thr
		35					40					45			
Thr	Ser	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Asn	Leu
	50					55					60				
Ser	Ile	Phe	Asp	Leu	Gly	Phe	Cys	Ser	Thr	Thr	Ala	Pro	Lys	Met	Leu
65				70						75					80
Ser	Tyr	Leu	Ser	Gly	Trp	Gly	Gly	Gly	Ile	Ser	Phe	Gln	Gly	Cys	Val
			85					90						95	
Val	Gln	His	Phe	Phe	Tyr	His	Cys	Leu	Gly	Cys	Thr	Leu	Cys	Phe	Leu
		100						105					110		
Tyr	Thr	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	Phe	Pro	Leu
	115					120						125			
Arg	Tyr	Thr	Ile	Ile	Met	Asn	His	Arg	Val	Cys	Cys	Val	Leu	Ala	Thr
	130					135						140			
Gly	Thr	Trp	Met	Ser	Gly	Cys	Val	His	Ala	Thr	Ile	Leu	Thr	Ser	Leu
145				150						155					160
Thr	Phe	Gln	Leu	Pro	Tyr	Cys	Gly	Pro	Ser	Glu	Val	Ser	Tyr	Tyr	Phe
			165					170						175	
Cys	Asp	Met	Pro	Ala	Val	Leu	Leu	Leu	Ala	Cys	Glu	Asp	Ser	Ser	Leu
		180						185					190		
Ala	Gln	Arg	Val	Gly	Phe	Thr	Asn	Val	Gly	Leu	Leu	Ser	Leu	Ile	Cys
	195						200					205			
Phe	Phe	Leu	Ile	Ile	Val	Ser	Tyr	Thr	Arg	Ile	Gly	Ile	Ser	Ile	Ser
	210					215					220				
Lys	Ile	Arg	Ser	Thr	Glu	Gly	Arg	Gln	Arg	Ala	Phe	Ser	Thr	Cys	Ser
225				230						235					240
Ala	His	Leu	Thr	Ala	Ile	Met	Cys	Val	Tyr	Gly	Pro	Val	Ile	Val	Ile
			245						250					255	
Tyr	Leu	Gln	Pro	Asn	Pro	Ser	Pro	Leu	Ser	Ala	Ile	Ile	Gln	Ile	
		260						265					270		
Leu	His	Asn	Leu	Val	Thr	Pro	Thr	Ile	Asn	Pro	Leu	Ile	Tyr	Ser	Leu
	275						280					285			
Arg	Asn	Lys	Asp	Val	Lys	Ala	Ala	Leu	Arg	His	Val	Phe	Leu	Lys	Arg
	290					295					300				
Cys	Leu	Ser	Leu	Glu	Val	Asn	Glu	Asn	Ser						
305					310										

<210> 1933  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1933

Met	Glu	Glu	Leu	Asn	His	Thr	Pro	Val	Ala	Glu	Phe	Ile	Leu	Ala	Gly
1				5					10					15	

Leu	Thr	Glu	Asn	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Leu	Ile	Phe	Leu		
			20					25					30				
Ser	Val	Tyr	Leu	Phe	Thr	Val	Val	Gly	Asn	Leu	Gly	Met	Ile	Val	Leu		
		35					40					45					
Ile	Leu	Ile	Ser	Ser	Gln	Leu	His	Thr	Pro	Met	Tyr	Tyr	Leu	Leu	Ser		
	50					55					60						
Ser	Leu	Ser	Phe	Ile	Asp	Cys	Cys	Gln	Ser	Thr	Val	Ile	Val	Pro	Lys		
65					70					75					80		
Met	Leu	Leu	Asn	Phe	Val	Thr	Glu	Lys	Asn	Val	Ile	Leu	Tyr	Pro	Glu		
				85					90					95			
Cys	Ile	Ala	Gln	Phe	Tyr	Phe	Phe	Cys	Thr	Phe	Val	Val	Ala	Lys	Cys		
			100					105					110				
His	Met	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Ser	Asn		
		115					120					125					
Pro	Leu	Leu	Tyr	Lys	Val	Thr	Met	Ser	Tyr	Gln	Val	Cys	Leu	Leu	Met		
	130					135					140						
Val	Ala	Val	Val	Tyr	Gly	Ile	Gly	Leu	Ile	Ser	Ala	Thr	Ala	His	Thr		
145					150					155					160		
Val	Phe	Leu	Leu	Arg	Leu	Phe	Phe	Cys	Lys	Ala	Asp	Lys	Ile	Asn	His		
				165					170					175			
Tyr	Phe	Cys	Asp	Leu	Phe	Pro	Leu	Leu	Glu	Leu	Ser	Cys	Ser	Ser	Thr		
			180					185					190				
Phe	Ile	Asn	Glu	Ile	Leu	Ala	Leu	Ser	Phe	Ser	Ala	Phe	Asn	Ile	Ile		
	195					200						205					
Val	Pro	Ala	Met	Thr	Ile	Ile	Gly	Ser	Tyr	Ile	Phe	Ile	Ile	Ile	Ser		
	210					215					220						
Ile	Leu	His	Ile	Lys	Ser	Ser	Gly	Gly	Arg	Val	Lys	Ala	Phe	Ser	Thr		
225				230						235					240		
Tyr	Ser	Ser	His	Ile	Leu	Ala	Val	Ala	Ile	Phe	Phe	Gly	Ser	Thr	Thr		
			245						250					255			
Phe	Met	Tyr	Leu	Gln	Pro	Ser	Ser	Val	Ser	Ser	Met	Asp	Gln	Trp	Lys		
			260					265					270				
Val	Ser	Ser	Val	Phe	Tyr	Thr	Ile	Val	Val	Pro	Val	Leu	Asn	Leu	Met		
		275					280					285					
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Val	Ala	Leu	Lys	Met	Leu		
	290				295						300						
Leu	Gln	Lys	Met	Phe	Pro	Gln	Asn	Lys	Glu								
305					310												

<210> 1934  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1934

Met	Ser	Asn	Tyr	Thr	Gly	Gln	Phe	Ser	Asp	Phe	Thr	Leu	Val	Gly	Phe		
1				5					10					15			
Phe	Ser	Gln	Ser	Lys	His	Pro	Ala	Leu	Leu	Ala	Val	Val	Ile	Phe	Val		
		20						25					30				
Val	Phe	Leu	Met	Ala	Leu	Ser	Gly	Asn	Thr	Leu	Leu	Ile	Leu	Leu	Ile		
	35						40					45					
Leu	Ser	Asp	Thr	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Ser	Gln		
	50					55					60						
Leu	Ser	Leu	Met	Asp	Met	Met	Tyr	Ile	Ser	Val	Thr	Val	Pro	Lys	Met		
65				70						75					80		
Leu	Met	Asp	Gln	Val	Leu	Gly	Asn	His	Lys	Ile	Ser	Ala	Ala	Ala	Cys		





Val	Tyr	Val	Phe	Gln	Leu	Pro	Phe	Cys	Gly	Ser	Arg	Met	Val	Asn	His
				165					170					175	
Phe	Phe	Cys	Glu	Val	Pro	Ser	Leu	Leu	Pro	Leu	Val	Cys	Glu	Asp	Thr
			180					185					190		
Ser	Gln	Tyr	Glu	His	Thr	Val	Leu	Val	Ser	Gly	Leu	Val	Ile	Leu	Leu
		195					200					205			
Leu	Pro	Phe	Leu	Ala	Ile	Leu	Ala	Ser	Tyr	Ala	Arg	Val	Leu	Val	Val
	210					215					220				
Val	Leu	Gln	Met	Gly	Ser	Gly	Lys	Gly	Gln	Ser	Arg	Ala	Val	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Leu	Thr	Val	Ala	Ser	Leu	Phe	Tyr	Val	Thr	Thr	Leu
			245						250					255	
Ser	Thr	Tyr	Thr	Gln	Pro	His	Ser	Leu	His	Ser	Pro	Gly	Arg	Asp	Lys
			260					265					270		
Val	Val	Ala	Val	Leu	Tyr	Ser	Ile	Val	Thr	Pro	Val	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Met	Gly	Ala	Leu	Arg	Arg	Gln
	290					295					300				
Arg	Gly														
305															

<210> 1936

<211> 306

<212> PRT

<213> Mus musculus

<400> 1936

Met	Glu	Thr	Gly	Asn	His	Ser	Cys	Gly	Thr	Asp	Phe	Thr	Leu	Val	Gly
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Leu	Phe	Gln	Tyr	Gly	His	Met	Asp	Thr	Phe	Leu	Phe	Thr	Val	Ile	Ser
			20					25					30		
Ile	Leu	Phe	Ala	Val	Ala	Leu	Ile	Gly	Asn	Ile	Thr	Leu	Val	Leu	Leu
		35				40						45			
Ile	Arg	Leu	Asp	Arg	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Gln	Leu	Ser	Ile	Ile	Asp	Met	Met	Cys	Ile	Ser	Thr	Thr	Val	Pro	Lys
65					70					75					80
Met	Gly	Ala	Asn	Phe	Leu	Ser	Asp	Thr	Lys	Ala	Ile	Ser	Val	Leu	Gly
			85						90					95	
Cys	Glu	Ile	Gln	Val	Phe	Met	Phe	Met	Ser	Leu	Ala	Gly	Cys	Glu	Ala
			100					105					110		
Leu	Leu	Leu	Gly	Phe	Met	Ser	Tyr	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Gln
		115					120					125			
Pro	Leu	His	Tyr	Pro	Val	Leu	Met	Ser	Arg	Lys	Ile	Cys	Cys	Ser	Met
	130					135					140				
Val	Ala	Ser	Ala	Trp	Ser	Ser	Ser	Ser	Ile	Asn	Ala	Leu	Ala	His	Thr
145					150					155					160
Val	Tyr	Val	Phe	Gln	Leu	Pro	Phe	Cys	Gly	Ser	Arg	Met	Val	Asn	His
			165						170					175	
Phe	Phe	Cys	Glu	Val	Pro	Ser	Leu	Leu	Pro	Leu	Val	Cys	Glu	Asp	Thr
			180					185					190		
Ser	Gln	Tyr	Glu	His	Met	Ile	Val	Met	Ser	Val	Leu	Val	Leu	Val	Leu
		195					200					205			
Leu	Pro	Phe	Leu	Ala	Ile	Leu	Ala	Ser	Tyr	Ala	Arg	Val	Leu	Val	Val
	210					215					220				
Val	Phe	Gln	Met	Gly	Ser	Gly	Lys	Gly	Gln	Ser	Arg	Ala	Val	Ser	Thr

225		230		235		240									
Cys	Ser	Ser	His	Leu	Thr	Val	Ala	Ser	Leu	Phe	Tyr	Val	Thr	Gly	Leu
			245						250					255	
Cys	Thr	Tyr	Thr	Gln	Pro	His	Ser	Leu	His	Ser	Pro	Gly	Arg	Asp	Lys
			260					265					270		
Val	Val	Ala	Val	Leu	Tyr	Ser	Ile	Val	Thr	Pro	Val	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ile	Gly	Ala	Leu	Arg	Arg	Gln
	290					295					300				
Met	Gly														
305															

<210> 1937  
 <211> 321  
 <212> PRT  
 <213> Mus musculus

<400> 1937

Met	Ala	Phe	Leu	His	Asn	Gly	Asn	His	Thr	Ala	Val	Thr	Glu	Phe	Ile
1			5					10					15		
Leu	Leu	Gly	Leu	Thr	Asp	Asp	Pro	Val	Leu	Arg	Ile	Val	Leu	Phe	Thr
		20					25					30			
Ile	Ile	Leu	Cys	Ile	Tyr	Leu	Val	Thr	Val	Ser	Gly	Asn	Leu	Ser	Thr
		35				40						45			
Ile	Leu	Leu	Ile	Arg	Val	Ser	Ser	Gln	Leu	His	His	Pro	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Ser	His	Leu	Ala	Ser	Ala	Asp	Ile	Gly	Tyr	Ser	Ser	Ser	Val
65				70					75						80
Thr	Pro	Asn	Met	Leu	Val	Asn	Phe	Leu	Val	Lys	Gln	Asn	Thr	Ile	Ser
			85					90						95	
Tyr	Ile	Gly	Cys	Ser	Ile	Gln	Phe	Gly	Ser	Ala	Ala	Phe	Phe	Gly	Gly
		100					105					110			
Leu	Glu	Cys	Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala
		115				120						125			
Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Met	Ser	Thr	Gln	Val	Cys
	130					135					140				
Val	Gln	Leu	Val	Val	Gly	Ser	Tyr	Ile	Gly	Gly	Phe	Leu	Asn	Ala	Ser
145				150					155						160
Phe	Ala	Thr	Val	Ser	Phe	Leu	Phe	Leu	Phe	Cys	Gly	Pro	Asn	Ile	
			165					170					175		
Ile	Asn	His	Phe	Phe	Cys	Asp	Phe	Ala	Pro	Leu	Ile	Glu	Leu	Ser	Cys
		180					185					190			
Ser	Asp	Val	Arg	Ile	Ser	Val	Leu	Val	Thr	Ser	Phe	Ser	Ala	Gly	Thr
	195					200						205			
Val	Thr	Met	Leu	Thr	Val	Leu	Val	Ile	Ala	Ile	Ser	Tyr	Thr	Tyr	Ile
	210					215					220				
Leu	Ile	Thr	Ile	Leu	Lys	Met	Arg	Ser	Thr	Glu	Gly	Arg	His	Lys	Ala
225				230					235						240
Phe	Ser	Thr	Cys	Thr	Ser	His	Leu	Thr	Ala	Val	Ser	Leu	Phe	Tyr	Gly
			245						250					255	
Thr	Ile	Thr	Phe	Ile	Tyr	Val	Met	Pro	Lys	Ser	Arg	Tyr	Ser	Thr	Asp
		260					265					270			
Gln	Asn	Lys	Val	Val	Ser	Val	Phe	Tyr	Met	Val	Val	Ile	Pro	Met	Leu
		275					280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Asn	Glu	Ile	Lys	Gly	Ala	Leu
	290					295					300				

Arg	Arg	His	Leu	Gly	Lys	Lys	Ile	Phe	Ser	Gln	Ser	Asn	Ile	Leu	Phe
305					310					315					320
Tyr															

<210> 1938  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1938

Met	Ala	Phe	Leu	Glu	Asn	Gly	Asn	His	Thr	Ala	Val	Ser	Glu	Phe	Ile
1				5				10					15		
Leu	Leu	Gly	Leu	Thr	Asp	Asp	Pro	Val	Leu	Arg	Ile	Val	Leu	Phe	Thr
		20					25					30			
Ile	Ile	Leu	Cys	Ile	Tyr	Leu	Val	Thr	Val	Ser	Gly	Asn	Leu	Ser	Thr
		35				40						45			
Ile	Leu	Leu	Ile	Arg	Val	Ser	Gln	Leu	His	His	Pro	Met	Tyr	Phe	
	50				55				60						
Phe	Leu	Ser	His	Leu	Ala	Ser	Ala	Asp	Ile	Gly	Leu	Ser	Ser	Ser	Val
65				70				75							80
Thr	Pro	Asn	Met	Leu	Val	Asn	Phe	Leu	Val	Glu	Arg	Ser	Thr	Ile	Ser
			85					90					95		
Tyr	Leu	Gly	Cys	Gly	Ile	Gln	Leu	Ser	Ser	Ala	Ala	Leu	Phe	Gly	Ala
		100					105					110			
Thr	Glu	Cys	Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Phe	Met	Ala
		115				120						125			
Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Met	Ser	Thr	Lys	Val	Cys
	130					135					140				
Val	Gln	Leu	Ile	Val	Gly	Ser	Tyr	Ile	Ala	Gly	Phe	Leu	Asn	Ala	Ser
145				150						155					160
Ser	Phe	Leu	Leu	Ser	Phe	Phe	Ser	Leu	Leu	Phe	Cys	Gly	Gln	Asn	Ile
			165					170					175		
Ile	Asn	Asp	Phe	Phe	Cys	Asp	Phe	Ala	Pro	Leu	Ala	Glu	Leu	Ser	Cys
		180					185					190			
Ser	Asp	Val	Ser	Val	Phe	Val	Val	Val	Ile	Ser	Phe	Ser	Ala	Gly	Thr
	195					200						205			
Val	Thr	Met	Leu	Thr	Val	Phe	Val	Ile	Ala	Ile	Ser	Tyr	Ser	Tyr	Ile
	210				215						220				
Leu	Ile	Thr	Ile	Leu	Lys	Met	Arg	Ser	Thr	Glu	Gly	Arg	Gln	Lys	Ala
225				230						235					240
Phe	Ser	Thr	Cys	Thr	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Phe	Tyr	Gly
			245					250					255		
Thr	Val	Thr	Phe	Ile	Tyr	Val	Met	Pro	Lys	Ser	Ser	Tyr	Ser	Met	Asp
		260					265					270			
Gln	Asn	Lys	Ile	Ile	Ser	Val	Phe	Tyr	Met	Val	Val	Val	Pro	Met	Leu
	275						280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Asn	Glu	Ile	Lys	Gly	Ala	Leu
	290					295				300					
Lys	Arg	His	Phe	Asp	Arg	Lys	Thr	Phe	Ser						
305					310										

<210> 1939  
 <211> 314  
 <212> PRT

<213> Mus musculus

<400> 1939

```
Met Ala Phe Leu Glu Asp Gly Asn His Thr Ala Val Thr Glu Phe Ile
 1          5          10          15
Leu Leu Gly Leu Thr Asp Asp Pro Val Leu Arg Val Ile Leu Phe Thr
 20          25          30
Ile Ile Leu Cys Ile Tyr Leu Val Thr Val Ser Gly Asn Leu Ser Thr
 35          40          45
Ile Leu Leu Ile Arg Val Ser Ser Gln Leu His His Pro Met Tyr Phe
 50          55          60
Phe Leu Ser His Val Gly Ser Val Asp Ile Gly Tyr Ser Ser Ser Val
 65          70          75          80
Thr Pro Asn Met Leu Val Asn Phe Leu Val Glu Lys His Thr Ile Ala
 85          90          95
Tyr Leu Gly Cys Gly Ile Gln Leu Ser Ser Ala Ala Phe Phe Gly Thr
100          105          110
Ala Glu Cys Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Phe Val Ala
115          120          125
Ile Cys Asn Pro Leu Leu Tyr Ser Thr Lys Met Ser Thr Gln Thr Cys
130          135          140
Ile Gln Leu Val Val Gly Ser Tyr Thr Gly Gly Ile Leu Asn Ala Ser
145          150          155          160
Phe Ala Ile Ile Ser Phe Phe Ser Phe Leu Phe Cys Gly Pro Asn Arg
165          170          175
Ile Asn His Phe Tyr Cys Asp Phe Ala Pro Leu Val Glu Leu Ser Cys
180          185          190
Ser Asp Ile Asn Val Ser Val Val Ile Thr Thr Ile Phe Ser Ala Ser
195          200          205
Val Thr Ile Ile Thr Val Phe Val Ile Ala Ile Ser Tyr Thr Tyr Ile
210          215          220
Leu Ile Thr Ile Leu Lys Met Arg Ser Thr Glu Gly Arg His Lys Ala
225          230          235          240
Phe Ser Thr Cys Thr Ser Tyr Leu Thr Ala Val Thr Leu Phe Tyr Gly
245          250          255
Thr Val Thr Phe Ile Tyr Val Val Pro Lys Ser Asn Tyr Ser Thr Asp
260          265          270
Gln Asn Lys Val Ala Ser Val Phe Tyr Ile Val Val Ile Pro Met Leu
275          280          285
Asn Pro Leu Ile Tyr Ser Leu Arg Asn Asn Asp Ile Lys Gly Ala Leu
290          295          300
Lys Arg Gln Leu Gly Lys Lys Thr Phe Ser
305          310
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<210> 1940

<211> 314

<212> PRT

<213> Mus musculus

<400> 1940

```
Met Ala Phe Ile Tyr Asn Gly Ser Gln Thr Thr Val Thr Glu Phe Ile
 1          5          10          15
Leu Leu Gly Leu Thr Asp Asp Pro Val Leu Lys Val Ile Leu Phe Cys
 20          25          30
Ile Ile Leu Cys Ile Tyr Leu Val Thr Val Phe Gly Asn Leu Ser Thr
 35          40          45
```

Ile	Leu	Leu	Ile	Gly	Val	Ser	Ser	Lys	Leu	His	His	Pro	Met	Tyr	Phe
50						55				60					
Phe	Leu	Ser	His	Leu	Ala	Ser	Val	Asp	Met	Gly	Leu	Ser	Ser	Ser	Val
65					70					75					80
Thr	Pro	Asn	Met	Leu	Val	Asn	Phe	Leu	Thr	Glu	Lys	Asn	Thr	Ile	Ser
				85					90					95	
Tyr	Leu	Gly	Cys	Gly	Ile	Gln	Leu	Ser	Ser	Ala	Ala	Phe	Phe	Gly	Ala
			100					105						110	
Val	Glu	Phe	Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Leu	Val	Ala
		115					120					125			
Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Met	Ser	Ser	Gln	Val	Cys
	130					135					140				
Ile	Gln	Leu	Val	Ala	Gly	Ser	Tyr	Val	Gly	Gly	Phe	Leu	Asn	Ala	Ser
145					150					155					160
Phe	Val	Thr	His	Phe	Phe	Phe	Ser	Phe	Leu	Phe	Cys	Gly	Pro	Asn	Arg
				165					170					175	
Val	Asn	His	Phe	Phe	Cys	Asp	Leu	Ser	Pro	Met	Met	Glu	Leu	Ser	Cys
			180					185					190		
Ser	Asp	Val	Ser	Ile	Ser	Glu	Ile	Val	Ile	Ser	Phe	Ser	Ala	Gly	Ser
	195						200						205		
Phe	Thr	Met	Thr	Thr	Leu	Phe	Val	Ile	Val	Ile	Pro	Tyr	Phe	Tyr	Ile
	210					215					220				
Phe	Ile	Thr	Ile	Leu	Lys	Ile	Arg	Ser	Thr	Glu	Gly	Arg	Gln	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Thr	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Tyr	Tyr	Gly
			245						250					255	
Thr	Ile	Ile	Phe	Ile	Tyr	Val	Met	Pro	Lys	Ser	Thr	Tyr	Ser	Arg	Asp
			260					265						270	
Gln	Asn	Lys	Val	Val	Ser	Leu	Phe	Tyr	Met	Leu	Val	Ile	Pro	Val	Leu
	275						280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Asn	Glu	Ile	Lys	Asp	Ala	Leu
	290					295					300				
Lys	Arg	Gln	Phe	Tyr	Arg	Lys	Thr	Leu	Leu						
305						310									

<210> 1941  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1941

Met	Asn	Gly	Gly	Asn	His	Thr	Ser	Met	Thr	Glu	Leu	Phe	Ile	Leu	Gly
1				5					10					15	
Pro	Thr	Glu	Asp	Pro	Thr	Phe	Cys	Ile	Ala	Phe	Phe	Val	Ile	Phe	Leu
			20					25					30		
Gly	Val	Tyr	Met	Val	Thr	Leu	Val	Gly	Asn	Ile	Ser	Ile	Ile	Thr	Leu
		35					40					45			
Ile	Arg	Ile	Ser	Ser	Gln	Leu	His	Thr	Pro	Val	Tyr	Leu	Phe	Leu	Asn
	50					55					60				
His	Leu	Ala	Phe	Val	Asp	Ile	Leu	Tyr	Ser	Thr	Leu	Val	Ser	Val	Ile
65					70					75					80
Met	Leu	Met	Glu	Leu	Leu	Glu	His	Glu	Leu	Ala	Leu	Pro	Val	Ala	Ala
			85					90						95	
Cys	Ala	Ala	Glu	Leu	Cys	Ile	Thr	Val	Leu	Phe	Gly	Ser	Ser	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Cys	Tyr	Val	Ala	Ile	Cys	Ser

	115					120					125				
Pro	Leu	Leu	Tyr	Ser	Thr	Leu	Met	Ser	Ser	Arg	Val	Cys	Phe	Leu	Leu
	130					135					140				
Leu	Gly	Met	Ser	Tyr	Val	Gly	Gly	Cys	Met	Asn	Gly	Trp	Ile	Phe	Thr
145					150					155					160
Gly	Cys	Leu	Leu	Asn	Leu	Ser	Phe	Tyr	Gly	Pro	Tyr	Gln	Ile	Asp	His
				165					170					175	
Phe	Phe	Cys	Asp	Phe	Ser	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Val
			180						185				190		
Ser	Ile	Ile	Gly	Ile	Ile	Pro	Ser	Ile	Ser	Ser	Gly	Ser	Ile	Ile	Val
		195					200					205			
Val	Thr	Val	Leu	Val	Ile	Ala	Val	Phe	Tyr	Ile	Cys	Ile	Leu	Met	Thr
	210					215					220				
Ile	Leu	Lys	Met	His	Ser	Thr	Asp	Gly	Cys	His	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Asn	Ser	Tyr	Leu	Thr	Ala	Val	Thr	Leu	Tyr	Tyr	Gly	Thr	Ile	Thr
				245					250					255	
Phe	Ile	Tyr	Val	Met	Pro	Lys	Ser	Asn	Tyr	Ser	Thr	Glu	Lys	Asn	Lys
			260					265					270		
Val	Leu	Ser	Glu	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	His	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Lys	Asn	Arg	Asp	Val	Lys	Asp	Ala	Leu	Arg	Lys	Ala
	290					295					300				
Ile	Val	Arg	Val	Tyr	Thr										
305					310										

<210> 1942  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1942

Met	Glu	Ile	Lys	Asn	Ser	Ser	Val	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Thr	Gln	Ser	Gln	Glu	Ala	Gln	Leu	Leu	Val	Phe	Ala	Leu	Ile	Ser
			20				25						30		
Val	Phe	Tyr	Leu	Ile	Ile	Leu	Pro	Gly	Asn	Phe	Leu	Ile	Ile	Phe	Thr
		35					40					45			
Ile	Arg	Ser	Asp	Ser	Gly	Leu	Thr	Ala	Pro	Leu	Tyr	Phe	Phe	Leu	Gly
	50					55					60				
Asn	Leu	Ala	Phe	Leu	Asp	Ala	Ser	Tyr	Ser	Phe	Ile	Val	Ala	Pro	Arg
65					70					75					80
Met	Leu	Val	Asp	Phe	Phe	Cys	Glu	Lys	Lys	Val	Ile	Ser	Tyr	Lys	Ala
				85					90					95	
Cys	Ile	Thr	Gln	Leu	Phe	Phe	Leu	His	Phe	Leu	Gly	Ala	Gly	Glu	Met
			100					105					110		
Phe	Leu	Leu	Val	Val	Met	Ala	Val	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Arg
			115				120					125			
Pro	Leu	Tyr	Tyr	Ser	Thr	Leu	Met	Asn	Pro	Arg	Val	Cys	Tyr	Ala	Leu
	130					135					140				
Leu	Leu	Ala	Leu	Trp	Leu	Gly	Gly	Phe	Ala	His	Ser	Ile	Val	Gln	Val
145					150					155					160
Ala	Leu	Ile	Leu	Asn	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Gln	Leu	Asp	Asn
				165					170					175	
Phe	Phe	Cys	Asp	Val	Pro	Gln	Val	Val	Lys	Leu	Ala	Cys	Thr	Asp	Thr
			180					185					190		

Phe	Ala	Val	Glu	Leu	Leu	Met	Val	Ser	Asn	Ser	Gly	Leu	Leu	Thr	Leu
	195						200					205			
Leu	Cys	Phe	Leu	Gly	Leu	Leu	Ala	Ser	Tyr	Ala	Val	Ile	Leu	Tyr	His
	210					215					220				
Val	Lys	Gly	His	Ser	Ser	Glu	Gly	Lys	Ser	Lys	Ala	Ile	Ser	Thr	Cys
225					230					235					240
Thr	Thr	His	Ile	Ile	Ile	Val	Phe	Leu	Met	Phe	Gly	Pro	Ala	Ile	Phe
			245						250					255	
Ile	Tyr	Thr	Arg	Pro	Phe	Gln	Ala	Leu	Gln	Ala	Asp	Lys	Val	Val	Ser
			260					265					270		
Leu	Phe	His	Thr	Val	Ile	Phe	Pro	Leu	Met	Asn	Pro	Val	Ile	Tyr	Thr
		275					280					285			
Leu	Arg	Asn	Gln	Glu	Val	Lys	Thr	Ser	Met	Arg	Lys	Leu	Leu	Ser	Gln
	290					295					300				
Tyr	Val	Ile	Cys												
305															

<210> 1943  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 1943

Met	Met	Asn	Val	Ala	Asn	Lys	Ser	Val	Val	Thr	Glu	Phe	Val	Leu	Leu
1				5					10					15	
Gly	Leu	Ser	Asn	Ser	Trp	Glu	Leu	Gln	Ile	Phe	Phe	Phe	Ile	Val	Phe
			20					25					30		
Ser	Leu	Phe	Tyr	Val	Ala	Thr	Met	Val	Ser	Asn	Ser	Met	Ile	Val	Leu
		35					40					45			
Ile	Val	Ile	Ser	Asp	Ser	His	Leu	His	Ser	Ala	Met	Tyr	Phe	Leu	Leu
	50					55					60				
Thr	Asn	Leu	Ser	Ile	Ile	Asp	Met	Ser	Leu	Ala	Ser	Phe	Ala	Thr	Pro
65					70					75					80
Lys	Met	Ile	Ile	Asp	Tyr	Leu	Thr	Asp	His	Lys	Thr	Ile	Ser	Phe	Asp
				85				90						95	
Gly	Cys	Ile	Ala	Gln	Ile	Phe	Phe	Leu	His	Leu	Phe	Thr	Gly	Thr	Glu
			100					105					110		
Ile	Ile	Leu	Leu	Met	Ala	Met	Ser	Phe	Asp	Arg	Tyr	Ile	Ala	Ile	Cys
		115					120					125			
Lys	Pro	Leu	Arg	Tyr	Ala	Ser	Ile	Ile	Ser	Pro	Gln	Val	Cys	Ile	Ala
	130					135					140				
Phe	Val	Val	Ser	Ser	Trp	Ile	Val	Gly	Thr	Met	His	Ser	Met	Ser	Gln
145					150					155					160
Val	Ile	Phe	Ala	Leu	Thr	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Lys	Ile	Asp
				165					170					175	
Ser	Phe	Phe	Cys	Asp	Leu	Pro	Val	Val	Phe	Gln	Leu	Ser	Cys	Val	Asp
			180					185					190		
Thr	Tyr	Val	Leu	Gly	Leu	Phe	Met	Ile	Ser	Thr	Ser	Gly	Ile	Ile	Ala
		195					200					205			
Leu	Ser	Cys	Phe	Ile	Leu	Leu	Phe	Asn	Ser	Tyr	Ile	Ile	Val	Leu	Val
	210					215					220				
Thr	Ile	Lys	His	His	Ser	Ser	Lys	Gly	Ser	Ser	Lys	Ala	Leu	Ser	Thr
225					230					235					240
Cys	Thr	Ala	His	Phe	Ile	Val	Val	Phe	Met	Phe	Phe	Gly	Pro	Cys	Ile
				245					250					255	
Phe	Ile	Tyr	Met	Trp	Pro	Gln	Asn	Ser	Phe	Val	Ile	Glu	Lys	Ile	Leu





<210> 1945  
 <211> 322  
 <212> PRT  
 <213> Mus musculus

<400> 1945  
 Met Ala Thr Ser Val His Arg Asn Gly Ser Leu Thr Pro Val Ser Leu  
 1 5 10 15  
 Gln Gly Phe Val Leu Val Gly Phe Gly Gly Ser Ala Glu Thr Gln Ala  
 20 25 30  
 Leu Leu Phe Ala Val Phe Leu Val Leu Tyr Val Val Thr Ile Leu Gly  
 35 40 45  
 Asn Leu Thr Met Ile Met Val Ile Thr Leu Asp Ala Arg Leu His Ser  
 50 55 60  
 Pro Met Tyr Phe Phe Leu Lys Asn Leu Ser Phe Val Asp Leu Cys Leu  
 65 70 75 80  
 Ser Ser Val Ile Ile Pro Asn Ala Leu Ala Asn Ile Phe Ser Ser Ser  
 85 90 95  
 Lys Thr Ile Ser Phe Ala Gly Cys Ala Thr Gln Phe Phe Phe Phe Ser  
 100 105 110  
 Leu Leu Ala Ala Thr Glu Ala Val Leu Leu Ala Val Met Ala Tyr Asp  
 115 120 125  
 Arg Phe Met Ala Ile Cys Ser Pro Leu Arg Tyr Pro Val Thr Met Cys  
 130 135 140  
 Pro Met Thr Cys Ala Arg Leu Val Leu Gly Thr Phe Cys Val Ala Cys  
 145 150 155 160  
 Leu Asn Ser Ile Val Gln Thr Ser Leu Thr Phe Gln Leu Pro Phe Cys  
 165 170 175  
 Ser Ser Asn Tyr Ile Asp Tyr Phe Phe Cys Asp Val Pro Pro Leu Leu  
 180 185 190  
 Gln Leu Ala Cys Ala Ser Thr Ala Ile Asn Glu Leu Val Met Phe Gly  
 195 200 205  
 Ile Cys Gly Phe Ile Ile Val Cys Ala Val Phe Val Val Ile Ile Ser  
 210 215 220  
 Tyr Gly Tyr Ile Thr Val Thr Ile Leu Arg Met Arg Ser Gly Ser Gly  
 225 230 235 240  
 Arg His Lys Val Phe Ser Thr Cys Gly Ser His Met Thr Ala Val Ser  
 245 250 255  
 Leu Phe Tyr Gly Thr Gly Phe Val Ile Tyr Gly Gln Pro Gly Gly Val  
 260 265 270  
 Ala Ser Met Glu Gln Gly Lys Val Ser Thr Ile Tyr Thr Leu Val  
 275 280 285  
 Ile Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val  
 290 295 300  
 Lys Asp Ala Leu Arg Arg Leu Gly Gln Arg His Ser Leu Val Lys Glu  
 305 310 315 320  
 Ser Gly

<210> 1946  
 <211> 323  
 <212> PRT  
 <213> Mus musculus

<400> 1946  
 Met Ala Ile Ala Val Tyr Arg Asn Gly Ser Leu Ser Ala Val Ser Leu

1				5				10					15				
Gln	Gly	Phe	Val	Leu	Val	Gly	Phe	Gly	Gly	Gly	Ala	Glu	Thr	Gln	Ala		
			20					25					30				
Leu	Leu	Phe	Ala	Val	Phe	Leu	Val	Leu	Tyr	Val	Val	Thr	Ile	Leu	Gly		
		35					40					45					
Asn	Leu	Thr	Met	Ile	Val	Val	Ile	Thr	Leu	Asp	Ala	Arg	Leu	His	Ser		
	50					55				60							
Pro	Met	Tyr	Phe	Phe	Leu	Lys	Asn	Leu	Ser	Phe	Val	Asp	Leu	Cys	Tyr		
65					70					75					80		
Ser	Ser	Ala	Ile	Ala	Pro	Asn	Ala	Leu	Ala	Asn	Phe	Leu	Ser	Thr	Ser		
				85					90					95			
Lys	Val	Ile	Ser	Phe	Glu	Ala	Cys	Ala	Thr	Gln	Leu	Phe	Phe	Phe	Ser		
			100					105						110			
Leu	Leu	Ala	Thr	Thr	Glu	Ala	Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp		
		115					120					125					
Arg	Phe	Met	Ala	Ile	Cys	Ser	Pro	Leu	Arg	Tyr	Pro	Val	Thr	Met	Cys		
	130					135					140						
Pro	Thr	Thr	Cys	Thr	Arg	Leu	Val	Leu	Gly	Thr	Tyr	Cys	Gly	Gly	Cys		
145					150					155					160		
Leu	Asn	Ser	Ile	Val	Gln	Thr	Ser	Leu	Thr	Phe	Gln	Leu	Pro	Phe	Cys		
				165					170					175			
Ser	Ser	Asn	Arg	Ile	Asp	His	Phe	Tyr	Cys	Asp	Val	Pro	Pro	Leu	Leu		
		180						185					190				
Gln	Leu	Ala	Cys	Ala	Ser	Thr	Ala	Leu	Asn	Glu	Leu	Phe	Leu	Phe	Gly		
		195					200				205						
Leu	Cys	Gly	Phe	Ile	Ile	Val	Ser	Thr	Thr	Leu	Ala	Val	Leu	Val	Ser		
	210					215					220						
Tyr	Gly	Tyr	Ile	Thr	Val	Thr	Ile	Leu	Arg	Met	His	Ser	Gly	Ser	Gly		
225					230					235					240		
Arg	His	Lys	Val	Phe	Ser	Thr	Cys	Gly	Ser	His	Met	Met	Ala	Val	Ser		
				245					250					255			
Leu	Phe	Tyr	Gly	Thr	Val	Phe	Val	Met	Tyr	Ala	Gln	Pro	Gly	Ala	Val		
			260					265					270				
Ala	Ser	Met	Ala	Gln	Gly	Lys	Val	Ile	Ser	Val	Phe	Tyr	Thr	Leu	Val		
		275					280					285					
Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val		
	290					295					300						
Lys	Asp	Ala	Leu	Arg	Arg	Leu	Gly	Gln	Arg	His	Ser	Leu	Val	Lys	Lys		
305					310					315					320		
Gly	Gly	Lys															

<210> 1947  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 1947  
 Met Met Thr Leu Ser Trp Glu Asn Gln Thr Val Ile Val Glu Phe Val  
 1 5 10 15  
 Leu Arg Gly Phe Ser Ser Ile Leu Gln Leu Asn Ile Ser Leu Phe Ile  
 20 25 30  
 Met Phe Cys Ile Phe Tyr Ile Leu Thr Ile Ser Gly Asn Ile Leu Ile  
 35 40 45  
 Val Phe Leu Val Leu Cys Asn His Ala Leu His Thr Pro Met Tyr Phe  
 50 55 60

Phe	Leu	Val	Asn	Leu	Ser	Phe	Leu	Glu	Val	Cys	Tyr	Thr	Ser	Asn	Ile
65					70					75					80
Val	Pro	Lys	Met	Leu	Ile	Ile	Ile	Ile	Ala	Asp	Gln	Lys	Thr	Ile	Ser
				85					90					95	
Val	Val	Gly	Cys	Leu	Ala	Gln	Phe	Tyr	Phe	Phe	Gly	Ser	Leu	Ala	Ala
			100					105					110		
Thr	Glu	Cys	Leu	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Leu	Ala
		115					120					125			
Ile	Cys	Gln	Pro	Leu	Arg	Tyr	Pro	Ile	Leu	Met	Thr	Gly	Ser	Leu	Cys
	130					135					140				
Phe	Arg	Leu	Ala	Ile	Gly	Ser	Trp	Phe	Cys	Cys	Phe	Phe	Leu	Thr	Ala
145					150					155					160
Ile	Thr	Met	Val	Leu	Leu	Cys	Arg	Gln	Asn	Phe	Cys	Gly	Pro	Asn	Glu
				165					170					175	
Ile	Asp	His	Phe	Phe	Cys	Asp	Phe	Ala	Pro	Leu	Ile	His	Leu	Ser	Cys
			180					185					190		
Met	Asp	Thr	Ser	Leu	Ile	Glu	Thr	Val	Ala	Phe	Ala	Thr	Ser	Ser	Ala
	195						200						205		
Val	Thr	Leu	Val	Pro	Phe	Phe	Leu	Ile	Thr	Ile	Ser	Tyr	Ser	Cys	Ile
	210					215					220				
Leu	Ile	Ala	Ile	Leu	Arg	Ile	Pro	Ser	Gly	Thr	Gly	Arg	Lys	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Thr	Val	Val	Thr	Val	Phe	Tyr	Gly
				245					250					255	
Thr	Leu	Ile	Ala	Thr	Tyr	Leu	Val	Pro	Ser	Ala	Asn	Ser	Ser	Gln	Tyr
			260					265					270		
Leu	Arg	Lys	Gly	Phe	Ser	Leu	Leu	Tyr	Thr	Ile	Leu	Thr	Pro	Met	Phe
		275					280					285			
Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Ile	His	Glu	Ala	Leu
	290					295					300				
Lys	Lys	Cys	Leu	Ser	Lys	Lys	Ser	Asp	Phe	Leu	Ile				
305					310					315					

<210> 1948  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1948

Met	Val	Glu	Asn	Phe	Asn	Ala	Ser	Trp	Glu	Gly	Tyr	Phe	Ile	Phe	Leu
1				5					10				15		
Gly	Phe	Ser	Lys	Trp	Pro	His	Leu	Glu	Val	Val	Leu	Phe	Val	Val	Ile
			20					25				30			
Leu	Ile	Phe	Tyr	Met	Met	Thr	Leu	Met	Gly	Asn	Leu	Phe	Ile	Ile	Ile
		35				40						45			
Leu	Ser	His	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Ser	Asn	Leu	Ser	Ala	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Ser	Ser	Val	Pro
65				70					75						80
Gln	Leu	Leu	Phe	Asn	Leu	Trp	Gly	Pro	Lys	Lys	Thr	Ile	Ser	Tyr	Ala
			85					90					95		
Gly	Cys	Met	Leu	Gln	Leu	Tyr	Phe	Val	Leu	Ala	Leu	Gly	Thr	Thr	Glu
		100					105					110			
Cys	Val	Leu	Val	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys	
	115					120					125				
Lys	Pro	Leu	His	Tyr	Ser	Val	Leu	Met	Asn	Pro	Arg	Phe	Cys	Gln	Leu

130	135	140
Leu Ala Ala Ala Ser Trp	Val Cys Gly Phe Thr	Thr Ser Ala Leu His
145	150	155
Ser Ser Phe Thr Phe	Trp Val Pro Leu Cys Gly	His Arg Lys Val Asp
	165	170
His Phe Phe Cys Glu	Val Pro Ala Leu Leu Gln	Leu Ser Cys Val Asp
	180	185
Ile His Ala Asn Glu	Met Thr Leu Met Val Met	Ser Ala Ile Phe Val
	195	200
Val Ile Pro Leu Ile Leu	Ile Leu Ser Ser Tyr	Ala Ala Ile Ala Trp
	210	215
Thr Val Leu Glu Met Gln	Ser Thr Thr Arg Leu	Gln Lys Val Phe Gly
225	230	235
Thr Cys Gly Ala His	Leu Thr Val Val Ser	Leu Phe Phe Ile Pro Ile
	245	250
Met Cys Ile Tyr Leu	Gln Pro Ser Thr Lys	Ser Ser Gln Asp His Ala
	260	265
Lys Phe Ile Ala Leu	Phe Tyr Thr Val Val	Thr Pro Ser Leu Asn Pro
	275	280
Leu Ile Tyr Thr Leu	Arg Asn Lys Asp Val	Arg Gly Ala Ile Arg Arg
	290	295
Leu Ser Arg Tyr Glu	Arg Glu Lys	
305	310	

<210> 1949  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1949

Met Thr Ile Asn Lys Ser Ser Gly Gly Asp Phe Ile Leu Val Gly Phe	
1 5 10 15	
Ser Asp Gln Pro Gln Leu Glu Lys Ile Leu Phe Val Leu Val Leu Ile	
20 25 30	
Ser Tyr Leu Leu Thr Leu Val Gly Asn Thr Ala Ile Ile Leu Val Ser	
35 40 45	
Cys Leu Asp Ser Ala Leu Gln Thr Pro Met Tyr Tyr Phe Leu Thr Asn	
50 55 60	
Leu Ser Phe Val Asp Ile Cys Phe Ser Thr Ser Ile Val Pro Gln Leu	
65 70 75 80	
Leu Trp Asn Leu His Gly Pro Ala Lys Thr Ile Thr Ala Thr Gly Cys	
85 90 95	
Ala Ile Gln Leu Tyr Val Ser Leu Ala Leu Gly Ser Thr Glu Cys Val	
100 105 110	
Leu Leu Ala Val Met Ala Phe Asp Arg Tyr Ala Ala Val Cys Arg Pro	
115 120 125	
Leu His Tyr Ala Thr Val Met His Pro Arg Leu Cys Gln Ser Leu Ala	
130 135 140	
Gly Val Ala Trp Leu Ser Gly Val Gly Asn Thr Leu Ile Gln Gly Thr	
145 150 155 160	
Ile Thr Leu Arg Leu Pro Arg Cys Gly Asn His Lys Ile Tyr His Phe	
165 170 175	
Ile Cys Glu Val Pro Ala Met Ile Lys Leu Ala Cys Val Asp Ile His	
180 185 190	
Ala Asn Glu Val Gln Leu Phe Met Ala Ser Leu Val Leu Leu Leu Leu	
195 200 205	

Pro	Leu	Thr	Leu	Ile	Leu	Val	Ser	Tyr	Gly	Tyr	Ile	Ala	Gln	Ala	Leu
210						215					220				
Met	Arg	Leu	Arg	Ser	Ala	Leu	Thr	Trp	Gly	Lys	Ala	Leu	Gly	Thr	Cys
225					230					235					240
Gly	Ser	His	Met	Leu	Val	Val	Val	Leu	Phe	Tyr	Gly	Thr	Ile	Thr	Ala
			245						250					255	
Ile	Tyr	Ile	Gln	Pro	Asn	Ser	Ser	Tyr	Ala	His	Ser	Gln	Gly	Lys	Phe
			260					265					270		
Ile	Thr	Leu	Leu	Tyr	Thr	Val	Val	Ile	Pro	Thr	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Lys	Arg	Leu	Val
	290					295					300				
Arg	Lys	Asn	Asn	Ser	Thr	Gly	Lys	Lys	Ile	Leu	Ser	Arg			
305					310					315					

<210> 1950  
 <211> 306  
 <212> PRT  
 <213> Mus musculus

<400> 1950

Met	Glu	Val	Asn	Arg	Thr	Leu	Val	Thr	Ala	Phe	Ile	Leu	Arg	Gly	Ile
1			5						10					15	
Thr	Asp	Leu	Pro	Glu	Leu	Gln	Val	Pro	Met	Phe	Leu	Val	Phe	Phe	Phe
			20					25					30		
Ile	Tyr	Val	Thr	Thr	Met	Val	Gly	Asn	Leu	Gly	Leu	Ile	Val	Leu	Ile
		35					40					45			
Trp	Lys	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Ser
	50					55					60				
Leu	Ala	Phe	Ala	Asp	Ala	Cys	Thr	Ser	Ser	Ser	Val	Thr	Pro	Arg	Met
65					70					75					80
Leu	Val	Asn	Ile	Leu	Asp	Asn	Gly	Lys	Met	Ile	Ser	Leu	Ser	Glu	Cys
			85						90					95	
Met	Ala	Gln	Tyr	Tyr	Val	Phe	Gly	Ser	Ser	Ala	Thr	Thr	Glu	Cys	Phe
			100					105					110		
Leu	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro
		115					120					125			
Leu	Leu	Tyr	Leu	Val	Val	Met	Ser	Asn	Arg	Val	Cys	Thr	Cys	Leu	Ile
	130					135					140				
Ser	Gly	Ser	Tyr	Ile	Ile	Gly	Phe	Leu	His	Pro	Leu	Ile	His	Val	Gly
145				150						155					160
Leu	Leu	Phe	Arg	Leu	Thr	Phe	Cys	Lys	Ser	Asn	Ile	Ile	Asp	His	Phe
			165						170					175	
Tyr	Cys	Glu	Ile	Leu	Pro	Leu	Tyr	Thr	Ile	Ser	Cys	Thr	Asp	Pro	Ser
			180					185					190		
Ile	Asn	Ala	Phe	Val	Val	Phe	Ile	Phe	Ala	Ala	Val	Ile	Gln	Ala	Val
		195					200					205			
Thr	Phe	Met	Ser	Ile	Ala	Val	Ser	Tyr	Ala	His	Val	Leu	Phe	Ser	Ile
	210					215					220				
Leu	Lys	Thr	Lys	Ser	Glu	Lys	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ser	Ala	His	Leu	Leu	Ser	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Leu	Phe	Phe
			245						250					255	
Met	Tyr	Val	Ser	Pro	Gly	Ser	Gly	Pro	Ser	Lys	Tyr	Lys	Asn	Lys	Met
			260					265					270		
Tyr	Ser	Leu	Phe	Tyr	Thr	Ile	Val	Ile	Pro	Leu	Leu	Asn	Pro	Phe	Ile

		275					280				285			
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Leu	Gly	Ala	Leu	Arg	Lys	Ile
	290					295					300			Met
Lys	Pro													
305														

<210> 1951  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1951

Met	Glu	Lys	Lys	Asn	Glu	Thr	Leu	Trp	Thr	Glu	Phe	Val	Leu	Thr	Gly
1				5					10					15	
Leu	Thr	Cys	Leu	Pro	Gln	Trp	Lys	Pro	Leu	Leu	Phe	Leu	Val	Phe	Leu
		20					25					30			
Val	Ile	Tyr	Phe	Met	Thr	Ile	Val	Gly	Asn	Leu	Gly	Leu	Ile	Thr	Leu
	35					40					45				
Ile	Trp	Asn	Asp	Pro	His	Leu	His	Ile	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50				55						60				
Asn	Leu	Ala	Phe	Val	Asp	Thr	Trp	Leu	Ser	Ser	Thr	Val	Thr	Pro	Arg
65				70					75					80	
Met	Leu	Phe	Asn	Leu	Asp	Lys	Gly	Lys	Val	Ile	Ser	Val	Ala	Glu	
			85				90						95		
Cys	Lys	Thr	Gln	Phe	Phe	Ser	Phe	Ala	Ile	Ser	Val	Thr	Thr	Glu	Cys
		100					105					110			
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Asn
	115					120					125				
Pro	Leu	Leu	Tyr	Pro	Val	Ile	Met	Thr	Asn	Arg	Leu	Cys	Val	Arg	Leu
	130					135					140				
Leu	Ala	Leu	Ser	Phe	Ile	Gly	Gly	Phe	Leu	His	Ala	Val	Ile	His	Glu
145				150					155					160	
Ser	Phe	Leu	Ser	Arg	Leu	Thr	Phe	Cys	Asn	Ser	Asn	Ile	Ile	Tyr	His
			165				170					175			
Phe	Tyr	Cys	Asp	Val	Ile	Pro	Leu	Leu	Lys	Ile	Ser	Cys	Thr	Asp	Pro
	180					185						190			
Ser	Leu	Asn	Tyr	Leu	Ile	Ile	Phe	Ile	Phe	Ser	Gly	Ser	Ile	Gln	Val
	195					200					205				
Phe	Thr	Ile	Met	Thr	Val	Leu	Ile	Ser	Tyr	Thr	Phe	Val	Leu	Phe	Thr
	210					215					220				
Ile	Leu	Lys	Lys	Lys	Ser	Asp	Lys	Gly	Ile	Arg	Lys	Ala	Phe	Ser	Thr
225				230					235					240	
Cys	Gly	Ala	His	Leu	Leu	Ser	Val	Ser	Leu	Tyr	Tyr	Gly	Pro	Leu	Leu
			245					250					255		
Phe	Met	Tyr	Val	His	Pro	Ala	Ser	Ser	Glu	Val	Asp	Asp	Gln	Asp	Met
	260					265						270			
Ile	Leu	Ser	Leu	Phe	Tyr	Thr	Val	Ile	Ile	Pro	Val	Leu	Asn	Pro	Ile
	275					280					285				
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Gln	Val	Ile	Asp	Ser	Leu	Lys	Lys	Met
	290				295						300				
Leu	Lys	Met	Met	Val											
305															

<210> 1952  
 <211> 309

<212> PRT  
 <213> Mus musculus

<400> 1952

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Met Gly Thr Glu Asn Thr Thr Leu Leu Thr Glu Phe Val Leu Thr Gly
 1      5      10      15
Leu Ser His Gln Pro Gln Trp Lys Ile Pro Leu Phe Leu Leu Phe Leu
 20      25      30
Val Ile Tyr Leu Ile Thr Ile Val Gly Asn Leu Gly Leu Ile Ile Leu
 35      40      45
Ile Trp Asn Asp Pro Arg Leu Gln Ile Pro Met Tyr Leu Phe Leu Gly
 50      55      60
Cys Leu Ala Leu Val Asp Thr Leu Leu Ser Ser Thr Val Thr Pro Lys
 65      70      75      80
Met Leu Leu Thr Phe Thr Ala Lys Ser Lys Leu Ile Ser Leu Ser Glu
 85      90      95
Cys Met Ile Gln Phe Phe Ser Phe Val Met Cys Ala Thr Met Glu Cys
 100     105     110
Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Lys
 115     120     125
Pro Leu Leu Tyr Pro Val Ile Met Thr Asn Arg Leu Cys Val Arg Leu
 130     135     140
Leu Val Leu Thr Phe Val Thr Gly Ile Leu His Ala Ser Ile His Glu
 145     150     155     160
Gly Met Leu Cys Arg Leu Thr Phe Cys Asn Ser Asn Val Ile His His
 165     170     175
Phe Tyr Cys Asp Val Met Pro Leu Leu Lys Ile Ser Cys Thr Asp Pro
 180     185     190
Ser Leu Asn Tyr Leu Ile Val Phe Ile Phe Ser Gly Ser Ile Gln Val
 195     200     205
Phe Thr Ile Ser Thr Ile Leu Gly Ser Tyr Thr Leu Val Leu Phe Thr
 210     215     220
Ile Leu Lys Lys Lys Ser Ala Lys Gly Ile Lys Lys Ala Phe Ser Thr
 225     230     235     240
Cys Gly Ala His Leu Leu Ser Val Cys Leu Tyr Tyr Gly Ser Leu Leu
 245     250     255
Phe Met Tyr Leu Leu Pro Ala Ser Gln Lys Ala Gln Asp Glu Asp Met
 260     265     270
Met Asp Ser Val Phe Tyr Thr Val Ile Ile Pro Val Met Asn Pro Ile
 275     280     285
Ile Tyr Ser Leu Arg Asn Lys Gln Ile Lys Asp Ser Leu Glu Lys Phe
 290     295     300
Leu Lys Arg Asn Val
305

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<210> 1953  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1953

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Met Ala Asn Ser Thr Thr Val Thr Glu Phe Ile Leu Leu Gly Leu Ser
 1      5      10      15
Asp Ala Cys Glu Leu Gln Val Leu Ile Phe Leu Gly Phe Leu Leu Thr
 20      25      30
Tyr Phe Leu Ile Leu Leu Gly Asn Phe Leu Ile Ile Phe Ile Thr Leu

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Ile	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Lys	Pro
	115						120					125			
Leu	Leu	Tyr	Gln	Val	Thr	Met	Ser	His	Gln	Val	Cys	Leu	Leu	Met	Thr
	130					135					140				
Val	Gly	Met	Tyr	Val	Met	Gly	Leu	Val	Gly	Ala	Ile	Ala	His	Ile	Val
145					150					155					160
Cys	Met	Leu	Arg	Leu	Thr	Phe	Cys	Glu	Gly	His	Ile	Ile	Asn	His	Tyr
				165					170					175	
Met	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Thr	Ser	Thr	Tyr
			180					185					190		
Ile	Asn	Glu	Leu	Val	Val	Phe	Ile	Val	Val	Gly	Val	Asn	Val	Ile	Val
	195						200					205			
Pro	Thr	Leu	Thr	Ile	Phe	Ile	Thr	Tyr	Thr	Leu	Ile	Leu	Ser	Asn	Ile
	210					215					220				
Leu	Ser	Ile	His	Ser	Ala	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Gly	Ser	His	Val	Ile	Ala	Val	Ser	Leu	Phe	Phe	Gly	Ala	Ala	Ala	Phe
				245					250					255	
Met	Tyr	Leu	Lys	Pro	Ser	Ser	Ala	Ser	Val	Asp	Glu	Glu	Lys	Leu	Ser
		260						265					270		
Thr	Ile	Phe	Tyr	Thr	Ile	Val	Gly	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr
	275						280					285			
Ser	Ile	Arg	Asn	Lys	Asp	Val	His	Ile	Ala	Leu	Arg	Lys	Thr	Leu	Lys
	290					295					300				
Lys	Ser	Met	Phe	Thr											
305															

<210> 1955  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1955

Met	Thr	Leu	Glu	Arg	Met	Ala	Phe	Ser	Asn	Asp	Ser	Ser	Val	Lys	Glu
1				5					10					15	
Phe	Ile	Leu	Leu	Gly	Leu	Thr	Gln	Gln	Pro	Glu	Leu	Gln	Met	Pro	Leu
		20					25						30		
Phe	Phe	Leu	Phe	Leu	Gly	Ile	Tyr	Val	Val	Ser	Met	Val	Gly	Asn	Leu
	35					40						45			
Gly	Leu	Ile	Val	Leu	Ile	Val	Leu	Asn	Pro	His	Leu	His	Thr	Pro	Met
	50				55						60				
Tyr	Tyr	Phe	Leu	Phe	Asn	Leu	Ser	Phe	Ile	Asp	Phe	Cys	Tyr	Ser	Ser
65					70					75					80
Val	Ile	Thr	Pro	Lys	Met	Leu	Val	Gly	Phe	Val	Lys	Gln	Asn	Ile	Ile
				85					90					95	
Ser	His	Ala	Glu	Cys	Met	Thr	Gln	Leu	Phe	Phe	Phe	Ser	Phe	Phe	Val
		100						105					110		
Ile	Asp	Glu	Cys	Tyr	Ile	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala
	115					120						125			
Ala	Ile	Cys	Lys	Pro	Leu	Leu	Tyr	Gln	Val	Thr	Met	Ser	Tyr	Gln	Val
	130					135					140				
Cys	Leu	Leu	Met	Thr	Gly	Gly	Met	Tyr	Val	Met	Gly	Leu	Val	Gly	Ala
145					150					155					160
Ile	Ala	His	Ile	Val	Cys	Met	Leu	Arg	Leu	Thr	Phe	Cys	Glu	Gly	Tyr
				165					170					175	
Ile	Ile	Asn	His	Tyr	Met	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Lys	Leu	Ser

			180				185				190				
Cys	Thr	Ser	Thr	Tyr	Ile	Asn	Glu	Leu	Val	Val	Phe	Ile	Val	Val	Gly
		195					200					205			
Val	Asn	Val	Ile	Val	Pro	Thr	Leu	Thr	Ile	Phe	Ile	Ser	Tyr	Thr	Leu
	210					215					220				
Ile	Leu	Ser	Asn	Ile	Leu	Ser	Ile	His	Ser	Ala	Glu	Gly	Arg	Ser	Lys
225					230					235					240
Ala	Phe	Arg	Thr	Cys	Gly	Ser	His	Phe	Ile	Ala	Val	Ser	Leu	Phe	Tyr
			245						250					255	
Gly	Ala	Ser	Ala	Phe	Met	Tyr	Leu	Lys	Pro	Ser	Ser	Ala	Ser	Val	Asp
			260					265					270		
Asp	Asp	Lys	Ile	Ser	Thr	Ile	Phe	Tyr	Ile	Ile	Val	Gly	Pro	Met	Leu
		275					280					285			
Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	His	Ile	Ala	Leu
	290					295					300				
Arg	Lys	Thr	Leu	Lys	Lys	Ser	Thr	Phe	Ile						
305					310										

<210> 1956  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1956

Met	Lys	Gln	Met	Ala	Thr	Glu	Asn	Asp	Ser	Ser	Val	Ser	Glu	Phe	Ile
1			5					10					15		
Leu	Leu	Gly	Leu	Thr	Asp	Gln	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Ala
		20						25				30			
Leu	Phe	Leu	Leu	Asn	Tyr	Thr	Ala	Thr	Met	Val	Gly	Asn	Leu	Thr	Leu
	35					40					45				
Met	Ser	Leu	Ile	Leu	Val	His	Ser	Asn	Leu	His	Thr	Pro	Met	Tyr	Phe
	50					55					60				
Phe	Ile	Phe	Asn	Leu	Ser	Phe	Ile	Asp	Phe	Cys	Tyr	Ser	Phe	Val	Phe
65				70				75						80	
Thr	Pro	Lys	Met	Leu	Met	Lys	Phe	Phe	Leu	Glu	Lys	Asn	Thr	Ile	Ser
			85					90					95		
Phe	Lys	Gly	Cys	Met	Thr	Gln	Leu	Phe	Phe	Cys	Phe	Phe	Val	Asn	
		100					105					110			
Thr	Glu	Ser	Tyr	Val	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala
	115					120					125				
Ile	Cys	Lys	Pro	Leu	Leu	Tyr	Gln	Ala	Ile	Met	Leu	Pro	Arg	Ile	Cys
	130					135					140				
Cys	Leu	Leu	Met	Phe	Met	Ser	Tyr	Leu	Met	Gly	Phe	Val	Ser	Ala	Met
145				150						155				160	
Ile	Leu	Thr	Gly	Leu	Met	Phe	Arg	Leu	Asn	Phe	Cys	Asn	Ser	Asn	Ile
			165					170					175		
Ile	Asn	His	Tyr	Met	Cys	Asp	Ile	Phe	Pro	Leu	Leu	Gln	Ile	Ser	Cys
		180						185					190		
Ser	Asp	Thr	Tyr	Leu	Asn	Glu	His	Val	Ser	Ser	Ala	Val	Val	Gly	Thr
	195					200						205			
Ala	Ile	Ile	Leu	Cys	Ser	Leu	Leu	Ile	Leu	Met	Ser	Tyr	Ala	Leu	Ile
	210					215					220				
Leu	Phe	Asn	Ile	Leu	Asn	Met	Ser	Ser	Gly	Lys	Gly	Trp	Ser	Lys	Ala
225					230					235				240	
Leu	Gly	Thr	Cys	Gly	Ser	His	Ile	Ile	Thr	Ala	Ser	Leu	Phe	Tyr	Gly
			245						250					255	

Ser	Gly	Leu	Leu	Ala	Tyr	Val	Lys	Pro	Ser	Ser	Pro	Glu	Thr	Val	Gly
			260					265					270		
Gln	Gly	Lys	Phe	Leu	Thr	Val	Phe	Tyr	Thr	Cys	Leu	Val	Pro	Val	Leu
		275					280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Pro	Asn	Lys	Asp	Val	Lys	Ile	Ala	Met
	290					295					300				
Lys	Lys	Thr	Leu	Lys	Arg	Ile	Thr	Ser							
305					310										

<210> 1957  
 <211> 331  
 <212> PRT  
 <213> Mus musculus

<400> 1957

Met	Leu	Leu	Gln	Met	Gln	His	Met	Lys	Gln	Met	Asn	Met	Glu	Asn	Asp
1				5					10					15	
Ser	Ser	Val	Ser	Glu	Phe	Ile	Leu	Met	Gly	Leu	Thr	Tyr	Gln	Pro	Glu
			20					25					30		
Leu	Arg	Trp	Pro	Leu	Phe	Val	Leu	Phe	Leu	Val	Asn	Tyr	Ser	Ala	Thr
	35						40					45			
Val	Met	Gly	Asn	Leu	Ser	Leu	Met	Thr	Leu	Ile	Phe	Leu	Asn	Ser	His
	50					55					60				
Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Leu	Asn	Leu	Ser	Phe	Ile	Asp
65					70				75						80
Phe	Cys	Tyr	Ser	Phe	Asp	Phe	Thr	Pro	Lys	Met	Leu	Met	Gly	Phe	Val
				85					90					95	
Ser	Glu	His	Asn	Thr	Ile	Ser	Phe	Thr	Gly	Cys	Met	Thr	Gln	Leu	Phe
			100					105					110		
Phe	Phe	Cys	Leu	Phe	Val	Asn	Ser	Glu	Cys	Tyr	Val	Leu	Thr	Ala	Met
		115				120						125			
Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg	Pro	Leu	Leu	Tyr	Thr	Val
	130					135					140				
Val	Met	Ser	Pro	Arg	Ala	Cys	Ser	Leu	Leu	Met	Leu	Ala	Ala	His	Leu
145					150					155					160
Met	Gly	Val	Ser	Ser	Ala	Ile	Val	His	Thr	Gly	Cys	Ile	Ile	Gln	Leu
				165					170					175	
Arg	Phe	Cys	Gly	Ser	Lys	Val	Ile	Asn	His	Tyr	Met	Cys	Asp	Thr	Phe
		180						185					190		
Pro	Leu	Leu	Glu	Leu	Ser	Cys	Gly	Ser	Ser	His	Val	Asn	Glu	Leu	Val
	195					200						205			
Ser	Ser	Val	Ser	Val	Ala	Val	Val	Val	Val	Ile	Ser	Ser	Leu	Ile	Ile
	210					215					220				
Val	Ser	Ser	Tyr	Ala	Leu	Ile	Leu	Val	Asn	Val	Met	His	Leu	Ser	Ser
225					230					235					240
Ser	Lys	Gly	Trp	Ser	Lys	Ala	Val	Ser	Thr	Cys	Ser	Ser	His	Ile	Ile
				245					250					255	
Thr	Val	Ala	Leu	Phe	Tyr	Gly	Phe	Gly	Leu	Leu	Ala	His	Ile	Lys	Pro
			260				265						270		
Ser	Ser	Ala	Glu	Ser	Val	Val	Glu	Arg	Lys	Phe	Phe	Ser	Val	Val	Tyr
		275					280					285			
Thr	Phe	Val	Leu	Pro	Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn
	290					295					300				
Lys	Asp	Val	Lys	Leu	Ala	Leu	Lys	Arg	Thr	Leu	Lys	Arg	Val	Thr	Ile
305					310					315					320
Gln	Gly	Lys	Cys	Leu	Cys	Cys	Ser	His	Lys	Ser					

<210> 1958  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 1958

Met	Ala	Thr	Gly	Asn	His	Tyr	Ser	Val	Thr	Glu	Phe	Ile	Leu	Thr	Gly
1				5					10					15	
Leu	Thr	Glu	Gln	Pro	Glu	Leu	Gln	Met	Pro	Leu	Phe	Phe	Leu	Phe	Leu
			20					25					30		
Val	Asn	Cys	Leu	Ile	Thr	Val	Val	Gly	Asn	Leu	Ser	Leu	Met	Ser	Leu
		35					40					45			
Ile	Cys	Cys	Asn	Ser	Asn	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Phe
	50					55					60				
Asn	Leu	Ser	Phe	Ile	Asp	Phe	Cys	Tyr	Ser	Phe	Ala	Phe	Thr	Pro	Lys
65					70					75					80
Thr	Leu	Met	Ser	Phe	Val	Leu	Glu	Lys	Asn	Ile	Ile	Tyr	Phe	Thr	Gly
				85					90					95	
Cys	Met	Thr	Gln	Leu	Phe	Phe	Met	Cys	Leu	Phe	Ala	Asn	Ser	Glu	Cys
			100					105					110		
Tyr	Leu	Val	Thr	Ala	Met	Asp	Tyr	Asp	His	Tyr	Val	Ala	Ile	Cys	Gln
		115					120					125			
Pro	Leu	Leu	Tyr	Met	Ile	Ile	Thr	Ser	Pro	Met	Thr	Cys	Ser	Leu	Met
	130					135					140				
Met	Phe	Gly	Ser	Tyr	Leu	Met	Gly	Gly	Ile	Gly	Ala	Ile	Val	His	Thr
145					150					155					160
Gly	Cys	Met	Ile	Arg	Leu	Asn	Phe	Cys	Gly	Ser	Asn	Ile	Ile	Asn	His
				165					170					175	
Tyr	Met	Tyr	Asp	Ile	Phe	Pro	Leu	Leu	Gln	Leu	Ser	Cys	Ser	Ser	Ile
			180					185					190		
Tyr	Ala	Asn	Glu	Leu	Val	Ser	Ser	Val	Phe	Val	Ser	Thr	Val	Val	Leu
		195					200					205			
Ala	Ser	Ser	Phe	Leu	Ile	Leu	Thr	Ser	Tyr	Ala	Leu	Ile	Leu	Phe	Asn
	210					215					220				
Ile	Thr	Gln	Leu	Ser	Gly	Lys	Gly	Leu	Ser	Lys	Ala	Met	Ser	Thr	Cys
225					230					235					240
Ser	Ser	His	Ile	Met	Thr	Val	Val	Leu	Phe	Tyr	Gly	Phe	Ala	Met	Leu
				245					250					255	
Thr	His	Val	Lys	Thr	Ser	Ser	Asp	Glu	Ser	Val	Asn	Gln	Gly	Asn	Phe
			260					265					270		
Phe	Cys	Leu	Phe	Cys	Thr	Phe	Leu	Val	Pro	Leu	Leu	Asn	Pro	Phe	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Leu	Ala	Leu	Lys	Arg	Thr	Leu
	290					295					300				
Arg	Arg	Leu	Thr	Val	Ser	Glu	Ser	Leu	Gly	Leu	Pro				
305					310					315					

<210> 1959  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1959

Met	Val	Asn	Gln	Ser	Ser	Pro	Val	Gly	Phe	Leu	Leu	Leu	Gly	Phe	Ser
1				5					10					15	
Glu	His	Pro	Gln	Leu	Glu	Lys	Val	Leu	Phe	Val	Ile	Val	Leu	Cys	Ser
			20					25					30		
Tyr	Leu	Leu	Thr	Leu	Leu	Gly	Asn	Thr	Leu	Ile	Leu	Leu	Leu	Ser	Thr
		35					40					45			
Leu	Asp	Pro	Arg	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn	Leu
	50					55					60				
Ser	Phe	Leu	Asp	Leu	Cys	Phe	Thr	Thr	Thr	Cys	Val	Pro	Gln	Met	Leu
65					70					75					80
Phe	Asn	Leu	Trp	Gly	Pro	Ala	Lys	Thr	Ile	Ser	Phe	Leu	Gly	Cys	Ser
				85					90					95	
Val	Gln	Leu	Phe	Ile	Phe	Leu	Ser	Leu	Gly	Thr	Thr	Glu	Cys	Ile	Leu
			100					105					110		
Leu	Thr	Val	Met	Ser	Phe	Asp	Arg	Tyr	Val	Ala	Val	Cys	Gln	Pro	Leu
		115					120					125			
His	Tyr	Ala	Thr	Val	Ile	His	Pro	Arg	Leu	Cys	Trp	Lys	Leu	Ala	Ala
	130					135					140				
Val	Ala	Trp	Met	Met	Gly	Leu	Leu	Gln	Ser	Ile	Val	Gln	Thr	Pro	Pro
145					150					155					160
Thr	Leu	Lys	Leu	Pro	Phe	Cys	Pro	His	Arg	Gln	Ile	Asp	Asp	Phe	Leu
				165					170					175	
Cys	Glu	Val	Pro	Ser	Leu	Ile	Arg	Leu	Ser	Cys	Gly	Asp	Thr	Thr	Phe
			180					185					190		
Asn	Glu	Ile	Gln	Leu	Ala	Val	Ser	Val	Ile	Leu	Val	Val	Val	Pro	
		195					200				205				
Leu	Ser	Leu	Ile	Leu	Val	Ser	Tyr	Gly	Ala	Ile	Ala	Arg	Ala	Val	Met
		210				215					220				
Arg	Ile	Asn	Ser	Thr	Glu	Ala	Trp	Lys	Lys	Ala	Leu	Arg	Thr	Cys	Ser
225					230					235					240
Ser	His	Leu	Ile	Val	Val	Thr	Leu	Phe	Tyr	Ser	Ser	Val	Ile	Ala	Val
				245					250					255	
Tyr	Leu	Gln	Pro	Lys	Asn	Pro	Tyr	Ala	Gln	Glu	Arg	Gly	Lys	Phe	Phe
			260					265					270		
Gly	Leu	Phe	Tyr	Ala	Val	Gly	Thr	Pro	Thr	Leu	Asn	Pro	Leu	Ile	Tyr
		275					280					285			
Thr	Leu	Arg	Asn	Lys	Glu	Val	Lys	Arg	Ala	Phe	Trp	Arg	Leu	Leu	Gly
		290				295					300				
Lys	Asp	Gly	Asp	Ser	Lys	Asn	Thr								
305					310										

<210> 1960  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1960

Met	Val	Asn	Gln	Ser	Ser	Pro	Val	Gly	Phe	Leu	Leu	Leu	Gly	Phe	Ser
1				5					10					15	
Glu	His	Pro	Gln	Leu	Glu	Lys	Val	Leu	Phe	Val	Val	Val	Leu	Cys	Ser
			20					25					30		
Tyr	Leu	Leu	Thr	Leu	Leu	Gly	Asn	Thr	Leu	Ile	Leu	Leu	Leu	Ser	Thr
		35					40					45			
Leu	Asp	Pro	Arg	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn	Leu
	50					55					60				
Ser	Phe	Leu	Asp	Leu	Cys	Phe	Thr	Thr	Thr	Cys	Val	Pro	Gln	Met	Leu

65					70					75				80
Phe	Asn	Leu	Trp	Gly	Pro	Ala	Lys	Thr	Ile	Ser	Phe	Leu	Gly	Cys
				85					90					95
Val	Gln	Leu	Phe	Ile	Phe	Leu	Ser	Leu	Gly	Thr	Thr	Glu	Cys	Ile
			100					105					110	
Leu	Ala	Val	Met	Ser	Phe	Asp	Arg	Tyr	Val	Ala	Val	Cys	Gln	Pro
		115					120					125		
His	Tyr	Ala	Thr	Val	Ile	His	Pro	Arg	Leu	Cys	Cys	Gln	Leu	Ala
	130					135					140			
Val	Ala	Trp	Thr	Ile	Gly	Leu	Val	Glu	Ser	Val	Val	Gln	Thr	Pro
145					150					155				160
Thr	Leu	Arg	Leu	Pro	Phe	Cys	Pro	His	His	Gln	Val	Asp	Asp	Phe
				165					170					175
Cys	Glu	Val	Pro	Ala	Leu	Ile	Arg	Leu	Ser	Cys	Gly	Asp	Thr	Thr
			180					185				190		
Asn	Glu	Ile	Gln	Met	Ala	Ile	Ala	Ser	Val	Phe	Ile	Leu	Val	Val
	195					200						205		
Leu	Ser	Leu	Ile	Leu	Val	Ser	Tyr	Gly	Ala	Ile	Ala	Arg	Ala	Val
	210					215					220			
Arg	Ile	Ser	Ser	Ala	Lys	Gly	Arg	Arg	Lys	Ala	Phe	Gly	Thr	Cys
225					230					235				240
Ser	His	Leu	Ile	Val	Thr	Leu	Phe	Tyr	Ser	Ser	Val	Ile	Ala	Val
			245					250					255	
Tyr	Leu	Gln	Pro	Lys	Asn	Pro	Tyr	Ala	Arg	Glu	Arg	Gly	Lys	Phe
			260				265						270	
Gly	Leu	Phe	Tyr	Ala	Val	Gly	Thr	Pro	Ser	Leu	Asn	Pro	Leu	Ile
	275					280						285		
Thr	Leu	Arg	Asn	Lys	Glu	Val	Lys	Arg	Ala	Phe	Arg	Arg	Leu	Leu
	290					295					300			
Lys	Glu	Val	Lys	Pro	Gly									
305					310									

<210> 1961  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1961														
Met	Gly	Lys	Asn	Asn	Asn	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu
1				5					10					15
Gln	Asp	Pro	Val	Gly	Gln	Lys	Ala	Leu	Phe	Val	Leu	Phe	Leu	Leu
			20					25					30	
Tyr	Ile	Val	Thr	Met	Ala	Gly	Asn	Leu	Ile	Ile	Val	Val	Thr	Ile
	35					40						45		
Ala	Ser	Pro	Ser	Leu	Ser	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Tyr
	50					55					60			
Ser	Leu	Met	Asp	Ala	Ile	Tyr	Ser	Thr	Ala	Ile	Ser	Pro	Lys	Leu
65					70					75				80
Met	Asp	Leu	Leu	Cys	Asn	Lys	Lys	Thr	Ile	Ser	Phe	Arg	Ala	Cys
			85					90					95	
Gly	Gln	Leu	Phe	Val	Glu	His	Leu	Phe	Gly	Ala	Thr	Glu	Ile	Phe
		100						105					110	
Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro
	115					120						125		
His	Tyr	Leu	Thr	Ile	Met	Asn	His	Arg	Val	Cys	Ile	Leu	Leu	Val
	130					135					140			

Ala	Thr	Trp	Val	Gly	Gly	Phe	Ala	His	Ser	Met	Ala	Gln	Val	Leu	Phe
145					150					155					160
Val	Tyr	Asp	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Phe	Ala
				165					170					175	
Cys	Asp	Met	Tyr	Pro	Leu	Leu	Val	Leu	Val	Cys	Ser	Asp	Thr	Tyr	Phe
			180					185					190		
Leu	Gly	Leu	Thr	Val	Ile	Ala	Asn	Asp	Gly	Ala	Ile	Cys	Met	Val	Val
		195					200					205			
Phe	Val	Ile	Leu	Leu	Ala	Ser	Tyr	Gly	Ile	Ile	Leu	Asn	Ser	Leu	Lys
	210					215					220				
Thr	His	Ser	Gln	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Ser	Ser
225					230					235					240
His	Ile	Met	Val	Val	Ile	Leu	Phe	Phe	Val	Pro	Cys	Ile	Phe	Met	Tyr
				245					250					255	
Val	Arg	Pro	Val	Ser	Asn	Phe	Pro	Val	Asp	Lys	Ser	Val	Thr	Ile	Phe
			260					265					270		
Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg
		275				280					285				
Asn	Ser	Glu	Ile	Lys	His	Ser	Met	Leu	Lys	Leu	Trp	Ser	Lys	Ile	Leu
	290					295					300				
His	Ser	Asp	Arg	Leu	Arg	Lys	Ser	Cys	Cys						
305					310										

<210> 1962  
 <211> 302  
 <212> PRT  
 <213> Mus musculus

<400> 1962

Met	Asp	Ser	Pro	Arg	Asn	Val	Thr	Glu	Phe	Phe	Met	Leu	Gly	Leu	Ser
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Gln	Asn	Pro	Gln	Val	Gln	Arg	Met	Leu	Phe	Gly	Leu	Phe	Leu	Leu	Val
			20					25				30			
Phe	Leu	Val	Ser	Val	Gly	Gly	Asn	Met	Leu	Ile	Ile	Ile	Thr	Ile	Thr
		35				40					45				
Phe	Ser	Pro	Thr	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Tyr	Leu
	50				55					60					
Ser	Phe	Ile	Asp	Thr	Cys	Tyr	Ser	Ser	Cys	Met	Thr	Pro	Lys	Leu	Ile
65					70				75					80	
Ala	Asp	Ser	Leu	His	Glu	Gly	Arg	Ala	Ile	Ser	Phe	Glu	Gly	Cys	Leu
				85				90					95		
Ala	Gln	Phe	Phe	Val	Ala	His	Leu	Leu	Gly	Gly	Thr	Glu	Ile	Ile	Leu
			100					105					110		
Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Thr	Thr	Thr	Met	Thr	Arg	His	Val	Cys	Ile	Val	Leu	Val	Ala
	130					135					140				
Val	Ala	Trp	Leu	Gly	Gly	Ile	Leu	His	Ser	Thr	Ala	Gln	Leu	Phe	Leu
145					150					155					160
Val	Leu	Gln	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asn	His	Phe	Val
				165					170					175	
Cys	Asp	Leu	Tyr	Pro	Leu	Leu	Glu	Leu	Ala	Cys	Thr	Asp	Thr	Tyr	Val
			180					185					190		
Ile	Gly	Leu	Leu	Val	Val	Ala	Asn	Ser	Gly	Val	Ile	Cys	Leu	Leu	Asn
	195						200					205			
Phe	Leu	Met	Leu	Ala	Ala	Ser	Tyr	Ile	Val	Ile	Leu	Arg	Thr	Leu	Arg

210		215		220
Ser His Ser Ala Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Gly Ala				
225		230		235
His Phe Thr Val Val Ala Leu Phe Phe Val Pro Cys Ile Phe Ile Tyr				240
	245		250	
Met Arg Pro Ser Thr Leu Ser Ile Asp Lys Ile Val Ala Val Phe				255
	260	265		270
Tyr Cys Ile Leu Thr Pro Met Phe Asn Pro Leu Ile Tyr Thr Leu Arg				
	275	280		285
Asn Ala Glu Val Lys Asn Ala Met Lys Asn Leu Trp Arg Lys				
290		295		300

<210> 1963  
 <211> 306  
 <212> PRT  
 <213> Mus musculus

<400> 1963

Met Ser Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr Gln Asp Pro				
1	5		10	15
Asp Leu Gln Lys Phe Leu Phe Ile Val Cys Leu Ile Ile Tyr Leu Ile				
	20		25	30
Thr Leu Ala Gly Asn Met Leu Ile Ser Val Thr Ile Phe Ile Ser Pro				
	35		40	45
Ala Leu Ala Thr Pro Met Tyr Phe Phe Leu Ser Tyr Leu Ser Val Ile				
	50		55	60
Asp Gly Phe Tyr Ser Ser Ser Ile Ala Pro Lys Met Ile Tyr Asp Leu				
65		70		75
Ile Ser Glu Lys Ser Thr Ile Ser Phe Asn Gly Cys Met Thr Gln Leu				
	85		90	95
Phe Val Glu His Phe Phe Ala Ala Ala Glu Ile Ile Leu Leu Met Ser				
	100		105	110
Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu His Tyr Met				
	115		120	125
Thr Ile Met Asn Arg Pro Leu Cys Val Phe Leu Val Gly Ala Ala Val				
	130		135	140
Ile Leu Gly Phe Ile His Gly Gly Ile Gln Ile Leu Phe Met Ala Gln				
145		150		155
Leu Pro Phe Cys Gly Pro Asn Ile Ile Asp His Phe Met Cys Asp Leu				
	165		170	175
Ile Pro Leu Leu Glu Leu Ala Cys Thr Asp Thr His Thr Leu Gly Pro				
	180		185	190
Leu Ile Ala Ala Asn Ser Gly Ser Leu Cys Leu Leu Ile Phe Ser Met				
	195		200	205
Leu Val Ala Ser Tyr Val Val Ile Leu Arg Ser Leu Arg Asn His Ser				
	210		215	220
Ala Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Ala Ser His Val Thr				
225		230		235
Val Val Val Leu Phe Phe Val Pro Cys Ser Tyr Leu Tyr Leu Arg Pro				
	245		250	255
Met Thr Ser Phe Pro Thr Asp Lys Ala Val Thr Val Phe Cys Thr Leu				
	260		265	270
Val Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Glu Glu				
	275		280	285
Val Lys Arg Val Met Lys Lys Leu Trp Gly Arg Met Arg Lys Ala Gly				
290		295		300



Asp Met  
305

<210> 1964  
<211> 311  
<212> PRT  
<213> Mus musculus

<400> 1964

Met	Gly	Asn	Phe	Asn	Thr	Ser	Thr	Gln	Glu	Ser	Phe	Ile	Leu	Val	Gly
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Phe	Ser	Asp	Trp	Pro	Gln	Leu	Gln	Ala	Phe	Leu	Phe	Val	Ile	Ile	Leu
		20						25					30		
Ile	Phe	Tyr	Ser	Leu	Thr	Ile	Phe	Gly	Asn	Thr	Thr	Ile	Ile	Val	Leu
		35					40					45			
Ala	Arg	Leu	Asp	Leu	Arg	Leu	His	Lys	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
His	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Ser	Thr	Val	Pro	Gln
65					70					75					80
Leu	Leu	Ile	Asn	Leu	Arg	Gly	Leu	Asp	Arg	Thr	Ile	Ser	Tyr	Gly	Gly
			85						90					95	
Cys	Val	Ala	Gln	Leu	Phe	Ile	Phe	Leu	Ala	Leu	Ala	Ser	Thr	Glu	Cys
		100						105					110		
Leu	Ile	Leu	Val	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Ala	Ala	Val	Cys	His
	115						120					125			
Pro	Leu	His	Tyr	Thr	Ser	Ile	Met	Asn	Pro	Ile	Leu	Cys	Arg	Ala	Leu
	130					135					140				
Ala	Ile	Ser	Ser	Trp	Val	Gly	Gly	Leu	Val	Asn	Ser	Leu	Ile	Gln	Thr
145					150					155					160
Gly	Leu	Val	Met	Ala	Met	Arg	Leu	Cys	Gly	His	Gln	Ile	Asn	His	Phe
			165						170					175	
Phe	Cys	Glu	Met	Pro	Ile	Phe	Leu	Lys	Leu	Ala	Cys	Glu	Asp	Thr	Glu
		180						185					190		
Gly	Thr	Glu	Ala	Lys	Met	Phe	Val	Ala	Arg	Thr	Ile	Val	Leu	Val	Cys
	195						200					205			
Pro	Ala	Val	Leu	Ile	Leu	Gly	Ser	Tyr	Val	His	Ile	Ala	Lys	Ala	Val
	210					215					220				
Leu	Lys	Val	Lys	Ser	Met	Ala	Gly	Arg	Arg	Lys	Ala	Phe	Gly	Thr	Cys
225					230					235					240
Gly	Ser	His	Leu	Met	Val	Val	Ser	Leu	Phe	Tyr	Gly	Ser	Gly	Ile	Tyr
			245						250					255	
Thr	Tyr	Leu	Gln	Pro	Val	His	Arg	Tyr	Ser	Glu	Ser	Lys	Gly	Lys	Phe
		260						265					270		
Val	Ala	Leu	Phe	Tyr	Thr	Ile	Val	Thr	Pro	Met	Phe	Asn	Pro	Leu	Ile
	275						280					285			
Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Trp	Lys	Leu	Leu
	290					295					300				
Gly	Arg	Gly	Thr	Asp	Ser	Gly									
305						310									

<210> 1965  
<211> 318  
<212> PRT  
<213> Mus musculus

<400> 1965

Met	Gly	Ser	Phe	Asn	Leu	Ser	Leu	Glu	Gly	Phe	Leu	Leu	Val	Gly	Phe
1				5					10					15	
Ser	Asp	Trp	Pro	Gln	Leu	Glu	Leu	Ile	Leu	Leu	Val	Phe	Ile	Ser	Ile
			20					25					30		
Phe	Tyr	Ser	Leu	Thr	Leu	Cys	Gly	Asn	Ile	Thr	Ile	Ile	Val	Leu	Thr
		35					40					45			
Gln	Gln	Asp	Leu	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala	His
	50					55					60				
Leu	Ser	Phe	Leu	Asp	Leu	Cys	Phe	Thr	Ser	Ser	Thr	Val	Pro	Lys	Leu
65					70					75					80
Leu	Ile	Ser	Leu	Ser	Arg	Gly	Asp	Gln	Thr	Ile	Ser	Tyr	Ala	Gly	Cys
				85					90					95	
Met	Thr	Gln	Phe	Phe	Ile	Ala	Leu	Leu	Leu	Gly	Gly	Thr	Glu	Cys	Val
			100						105					110	
Leu	Leu	Val	Val	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Val	Cys	Arg	Pro
		115					120					125			
Leu	His	Tyr	Thr	Ser	Ile	Met	His	Pro	Leu	Leu	Cys	His	Ala	Leu	Ala
	130					135					140				
Ile	Ser	Ser	Trp	Val	Gly	Gly	Leu	Val	Asn	Ser	Leu	Thr	Gln	Thr	Ser
145					150					155					160
Leu	Ile	Met	Thr	Ile	Pro	Leu	Cys	Gly	His	His	Leu	Asn	His	Phe	Phe
				165					170					175	
Cys	Glu	Met	Leu	Val	Leu	Leu	Lys	Leu	Ala	Cys	Glu	Asp	Thr	Val	Gly
			180					185					190		
Thr	Glu	Thr	Tyr	Leu	Phe	Trp	Ala	Gly	Ala	Val	Ile	Leu	Val	Cys	Pro
		195					200					205			
Val	Ala	Leu	Ile	Leu	Gly	Thr	Tyr	Ala	His	Ile	Ala	His	Ala	Val	Leu
	210					215					220				
Lys	Ile	Lys	Ser	Arg	Ser	Gly	Arg	Arg	Lys	Ala	Leu	Gly	Thr	Cys	Gly
225					230					235					240
Ser	His	Leu	Thr	Val	Val	Phe	Leu	Phe	Tyr	Gly	Ser	Ala	Met	Tyr	Thr
				245					250					255	
Tyr	Leu	Gln	Pro	Ile	His	Thr	Tyr	Ser	Gly	Ser	Glu	Gly	Lys	Phe	Ala
			260					265					270		
Ala	Leu	Phe	Tyr	Thr	Ile	Ile	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr
	275						280					285			
Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Cys	Lys	Val	Leu	Val
	290					295					300				
Lys	Gly	Lys	Lys	Glu	Thr	Lys	Thr	Arg	Arg	Lys	Met	Val	Glu		
305					310					315					

<210> 1966

<211> 311

<212> PRT

<213> Mus musculus

<400> 1966

Met	Gly	Thr	Phe	Asn	Thr	Ser	Leu	Gly	Gly	Gly	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Phe	Ser	Asp	Trp	Pro	Ala	Leu	Glu	Leu	Ile	Phe	Phe	Ile	His	Ile	Leu
			20					25					30		
Ile	Phe	Tyr	Ser	Ile	Thr	Leu	Phe	Gly	Asn	Thr	Ala	Ile	Ile	Ala	Leu
		35					40					45			
Ser	Arg	Thr	Asp	Leu	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				

His	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Phe	Thr	Thr	Ser	Thr	Val	Pro	Gln
65					70					75					80
Leu	Leu	Ile	Asn	Leu	His	Gly	Gln	Asp	Arg	Thr	Ile	Ser	Tyr	Gly	Gly
			85						90					95	
Cys	Val	Ala	Gln	Leu	Phe	Ile	Phe	Leu	Ala	Leu	Gly	Ser	Thr	Glu	Ser
			100					105					110		
Val	Leu	Leu	Val	Val	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Val	Cys	Arg
			115					120				125			
Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	His	Pro	Val	Leu	Cys	Gln	Ala	Leu
	130					135					140				
Ala	Ile	Ala	Ser	Trp	Val	Gly	Gly	Phe	Leu	Asn	Ser	Leu	Ile	Gln	Thr
145					150					155					160
Gly	Leu	Met	Met	Ala	Met	Pro	Leu	Cys	Gly	His	Arg	Leu	Asn	His	Phe
				165					170					175	
Phe	Cys	Glu	Met	Pro	Val	Phe	Leu	Lys	Leu	Ala	Cys	Gln	Asp	Thr	Gly
			180					185					190		
Gly	Thr	Glu	Ala	Lys	Met	Phe	Val	Ala	Arg	Val	Val	Ile	Val	Ala	Val
		195					200					205			
Pro	Ala	Met	Leu	Ile	Leu	Gly	Ser	Tyr	Ala	Gln	Ile	Ala	Arg	Ala	Val
	210					215					220				
Leu	Lys	Val	Lys	Ser	Val	Ala	Ala	Arg	Arg	Lys	Ala	Ala	Gly	Thr	Cys
225					230					235					240
Gly	Ser	His	Leu	Leu	Val	Val	Ser	Leu	Phe	Tyr	Gly	Ser	Ala	Thr	Tyr
			245						250					255	
Thr	Tyr	Leu	Gln	Pro	Lys	Asp	Ser	Tyr	Ser	Glu	Ser	Lys	Gly	Lys	Phe
			260					265					270		
Val	Ala	Leu	Phe	Tyr	Thr	Ile	Ile	Thr	Pro	Met	Phe	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Met	Lys	Gly	Ala	Leu	Trp	Lys	Val	Leu
	290					295					300				
Gly	Arg	Ala	Ala	Ala	Thr	Gly									
305					310										

<210> 1967  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1967

Met	Glu	Ser	Phe	Asn	Ile	Ser	Leu	Gly	Lys	Gly	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Phe	Ser	Asp	Trp	Pro	Ala	Leu	Glu	Leu	Ile	Phe	Phe	Ile	Tyr	Ile	Leu
			20					25					30		
Ile	Phe	Tyr	Ser	Leu	Thr	Leu	Phe	Gly	Asn	Thr	Ala	Ile	Ile	Ala	Leu
		35					40					45			
Ser	Arg	Met	Asp	Leu	Gln	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Cys
	50					55					60				
His	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Phe	Thr	Thr	Ser	Thr	Val	Pro	Gln
65					70					75					80
Leu	Leu	Ile	Asn	Leu	His	Gly	Gln	Asp	Arg	Thr	Ile	Ser	Tyr	Gly	Gly
			85						90					95	
Cys	Val	Ser	Gln	Leu	Phe	Ile	Thr	Leu	Ala	Leu	Gly	Ser	Thr	Glu	Ser
			100					105					110		
Val	Leu	Leu	Val	Val	Met	Ala	Phe	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Arg
		115					120					125			
Pro	Leu	His	Tyr	Met	Asn	Ile	Met	His	Pro	Val	Leu	Cys	Gln	Ala	Leu

130	135	140
Ala Ile Ala Ser Trp Val	Gly Gly Phe Leu Asn Ser	Leu Ile Gln Thr
145	150	155
Gly Leu Met Met Ala Met	Pro Leu Cys Gly His Arg	Leu Asn His Phe
165	170	175
Phe Cys Glu Met Pro Val	Phe Leu Lys Leu Ala Cys	Gln Asp Thr Gly
180	185	190
Gly Thr Glu Ala Lys Met	Phe Val Ala Arg Ala Val	Ile Val Ala Val
195	200	205
Pro Ala Met Leu Ile Leu	Gly Ser Tyr Ala Gln Ile	Ala Arg Ala Val
210	215	220
Leu Lys Val Lys Ser Val	Ala Ala Arg Arg Lys Ala	Ala Gly Thr Cys
225	230	235
Gly Ser His Leu Leu Val	Val Ser Leu Phe Tyr Gly	Ser Ala Thr Tyr
245	250	255
Thr Tyr Leu Gln Pro Lys	Asp Ser Tyr Ser Glu Ser	Lys Gly Lys Phe
260	265	270
Val Ala Leu Phe Tyr Thr	Ile Ile Thr Pro Met Phe	Asn Pro Leu Ile
275	280	285
Tyr Thr Leu Arg Asn Lys	Asp Met Lys Gly Ala Leu	Trp Lys Val Leu
290	295	300
Gly Arg Ala Ala Ala Thr	Gly	
305	310	

<210> 1968  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1968

Met Glu Tyr Leu Asn Thr Ser Ser Glu Glu Gly Phe Ile Leu Val Gly	
1 5 10 15	
Phe Ser Asp Trp Pro His Leu Glu Pro Thr Leu Phe Ala Phe Ile Ser	
20 25 30	
Ile Phe Tyr Ser Leu Thr Leu Phe Gly Asn Thr Val Ile Ile Ile Leu	
35 40 45	
Ser Arg Leu Asp Leu Arg Leu His Thr Pro Met Tyr Tyr Phe Leu Cys	
50 55 60	
His Leu Ser Phe Leu Asp Leu Cys Tyr Thr Thr Ser Thr Val Pro Gln	
65 70 75 80	
Leu Leu Val Asn Leu Ser Gly Leu Asp Arg Thr Ile Ser Phe Gly Arg	
85 90 95	
Cys Val Ala Gln Leu Cys Ile Val Leu Ser Leu Gly Gly Thr Glu Cys	
100 105 110	
Val Leu Leu Val Ala Met Ala Ile Asp Arg Tyr Ala Ala Val Cys Arg	
115 120 125	
Pro Leu His Tyr Thr Thr Ile Met His Pro Val Leu Cys Arg Ala Leu	
130 135 140	
Val Val Phe Ser Trp Val Gly Gly Leu Val Asn Ser Leu Ile Gln Thr	
145 150 155 160	
Ser Leu Val Met Ala Met Pro Leu Cys Gly His Gln Leu Asn His Phe	
165 170 175	
Phe Cys Glu Leu Pro Val Leu Leu Lys Met Ala Cys Glu Asp Thr Gly	
180 185 190	
Gly Thr Glu Val Asn Leu Phe Val Ala Arg Val Ile Ile Leu Val Cys	
195 200 205	

Pro	Leu	Leu	Leu	Ile	Leu	Gly	Ser	Tyr	Ala	His	Ile	Ala	Arg	Ala	Val
210						215					220				
Leu	Asn	Ile	Arg	Ser	Met	Ala	Gly	Arg	Arg	Lys	Ala	Phe	Gly	Thr	Cys
225					230					235					240
Ala	Ser	His	Leu	Ile	Val	Val	Ala	Met	Phe	Tyr	Gly	Ser	Ala	Ile	Ser
				245					250					255	
Thr	Tyr	Leu	Gln	Pro	Val	His	Arg	Tyr	Ser	Glu	Lys	Glu	Gly	Lys	Phe
			260					265					270		
Leu	Ala	Leu	Phe	Tyr	Thr	Ile	Ile	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Trp	Lys	Val	Leu
	290					295					300				
Gly	Arg	Gly	Thr	Asp	Ser	Arg									
305					310										

<210> 1969  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1969

Met	Gly	Ser	Phe	Asn	Ala	Ser	Leu	Gly	Lys	Gly	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Phe	Ser	Asp	Trp	Pro	Gln	Leu	Glu	Leu	Ile	Leu	Phe	Ile	Tyr	Val	Leu
			20					25					30		
Ile	Phe	Tyr	Ser	Leu	Thr	Leu	Phe	Gly	Asn	Thr	Thr	Ile	Ile	Ala	Leu
		35					40					45			
Ser	Gln	Leu	Asp	Ile	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
His	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Ser	Thr	Val	Pro	Gln
65					70				75						80
Leu	Leu	Ile	Asn	Ile	Ala	Ala	Gln	Asp	His	Thr	Ile	Thr	Tyr	Gly	Arg
			85					90						95	
Cys	Val	Ala	Gln	Leu	Phe	Ser	Val	Leu	Ala	Leu	Gly	Ser	Thr	Glu	Ser
			100					105					110		
Met	Leu	Leu	Val	Val	Met	Ala	Phe	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Arg
		115				120						125			
Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	His	Pro	Leu	Leu	Cys	Gln	Ala	Leu
	130					135					140				
Ala	Ile	Ser	Ser	Trp	Val	Ala	Gly	Leu	Val	Asn	Ser	Leu	Ile	Gln	Thr
145					150					155					160
Gly	Leu	Met	Met	Ala	Met	Pro	Leu	Cys	Arg	Tyr	Arg	Leu	Asn	His	Phe
			165						170					175	
Phe	Cys	Glu	Met	Pro	Val	Phe	Leu	Lys	Leu	Ala	Cys	Lys	Asp	Thr	Ala
		180						185					190		
Gly	Thr	Glu	Ala	Lys	Met	Phe	Val	Ala	Arg	Ala	Ile	Ile	Leu	Val	Phe
	195						200					205			
Pro	Ala	Thr	Leu	Ile	Leu	Gly	Ser	Tyr	Ala	His	Ile	Ala	Arg	Ala	Val
	210					215					220				
Leu	Lys	Val	Lys	Ser	Thr	Ser	Gly	Arg	Arg	Lys	Ala	Phe	Gly	Thr	Cys
225					230					235					240
Gly	Ser	His	Leu	Leu	Val	Val	Ser	Met	Phe	Tyr	Gly	Ser	Thr	Ile	Tyr
			245						250					255	
Thr	Tyr	Leu	Gln	Pro	Asn	Asp	Ser	Tyr	Ser	Glu	Asn	Glu	Gly	Lys	Phe
		260						265					270		
Val	Ala	Leu	Phe	Tyr	Thr	Ile	Val	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile

		275					280				285				
Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Trp	Lys	Val	Leu
	290					295					300				
Gly	Arg	Gly	Thr	Asp	Ser	Arg									
305						310									

<210> 1970  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1970

Met	Gly	Thr	Phe	Asn	Phe	Ser	Ser	Asp	Arg	Ala	Phe	Phe	Leu	Val	Gly
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Phe	Ser	Asp	Trp	Pro	His	Leu	Glu	Leu	Val	Phe	Phe	Val	Ala	Ile	Ser
		20						25				30			
Ile	Phe	Tyr	Ser	Leu	Thr	Leu	Phe	Gly	Asn	Ser	Ser	Ile	Ile	Ala	Leu
	35						40					45			
Ser	Arg	Leu	Asp	Leu	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Cys
	50					55					60				
His	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Ser	Thr	Val	Pro	Gln
65					70				75					80	
Leu	Leu	Ile	Asn	Leu	His	Gly	Gln	Asp	Arg	Thr	Ile	Ser	Tyr	Glu	Arg
			85						90					95	
Cys	Val	Ala	Gln	Leu	Leu	Ile	Phe	Leu	Ala	Leu	Ala	Ser	Thr	Glu	Cys
			100					105					110		
Val	Leu	Leu	Gly	Val	Met	Ala	Phe	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Arg
		115					120					125			
Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	His	Pro	Gln	Leu	Cys	His	Thr	Leu
	130					135					140				
Ala	Ile	Ser	Ser	Trp	Val	Gly	Gly	Leu	Val	Asn	Ser	Leu	Thr	Gln	Thr
145					150				155					160	
Gly	Leu	Met	Met	Val	Met	Pro	Leu	Cys	Gly	Tyr	Arg	Leu	Asn	His	Phe
			165					170						175	
Phe	Cys	Glu	Met	Pro	Ile	Phe	Leu	Lys	Leu	Ala	Cys	Glu	Glu	Thr	Lys
		180						185					190		
Arg	Thr	Glu	Ala	Lys	Met	Phe	Val	Ala	Arg	Thr	Ile	Val	Leu	Val	Cys
	195						200					205			
Pro	Ala	Ala	Leu	Ile	Leu	Gly	Ser	Tyr	Ala	His	Ile	Thr	Arg	Ala	Val
	210					215					220				
Leu	Lys	Val	Lys	Ser	Thr	Ala	Gly	Arg	Arg	Lys	Ala	Phe	Gly	Thr	Cys
225					230				235					240	
Gly	Ser	His	Ile	Leu	Val	Val	Ser	Leu	Phe	Tyr	Gly	Ser	Ala	Ile	Tyr
			245						250					255	
Thr	Tyr	Leu	Gln	Pro	Thr	His	Thr	Tyr	Ser	Glu	Ser	Glu	Gly	Lys	Phe
		260						265					270		
Val	Ala	Leu	Phe	Tyr	Thr	Ile	Ile	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile
	275						280					285			
Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Trp	Lys	Val	Leu
	290					295					300				
Gly	Arg	Gly	Thr	Asp	Ser	Glu									
305						310									

<210> 1971  
 <211> 313

<212> PRT  
 <213> Mus musculus

<400> 1971

Met	Met	Gln	Trp	Asn	Asn	Trp	Thr	Arg	Asn	Ser	Asp	Phe	Ile	Leu	Leu
1				5					10					15	
Gly	Phe	Phe	Asp	His	Ser	Pro	Leu	His	Thr	Phe	Phe	Phe	Ser	Leu	Ile
			20					25					30		
Leu	Ala	Ile	Phe	Phe	Met	Ala	Leu	Ile	Gly	Asn	Ser	Val	Met	Val	Ile
		35					40					45			
Leu	Ile	Tyr	Leu	Asp	Ala	Gln	Leu	His	Thr	Pro	Met	Tyr	Ile	Leu	Leu
	50					55					60				
Ser	Gln	Leu	Ser	Leu	Met	Asp	Leu	Met	Leu	Ile	Ser	Thr	Thr	Val	Pro
65					70					75					80
Gln	Thr	Ala	Phe	Asn	Phe	Leu	Ser	Gly	Asn	Lys	Ser	Ile	Ser	Met	Ala
				85					90					95	
Gly	Cys	Gly	Val	Gln	Ile	Phe	Phe	Tyr	Val	Ser	Leu	Leu	Gly	Ala	Glu
			100					105					110		
Cys	Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
		115					120					125			
Tyr	Pro	Leu	Arg	Tyr	Pro	Ile	Leu	Met	Ser	His	Lys	Ile	Cys	Ser	Leu
	130					135					140				
Met	Ala	Ala	Phe	Ser	Trp	Ile	Leu	Gly	Ser	Leu	Asp	Gly	Ile	Ile	Asp
145					150					155					160
Val	Ala	Ala	Val	Leu	Ser	Phe	Ser	Tyr	Cys	Gly	Thr	Arg	Glu	Ile	Pro
				165					170					175	
His	Phe	Phe	Cys	Asp	Ile	Pro	Ala	Leu	Leu	Thr	Ile	Ser	Cys	Ser	Asp
			180					185					190		
Thr	Leu	Ile	Phe	Glu	Lys	Ile	Ile	Phe	Phe	Cys	Cys	Val	Ile	Met	Leu
		195					200					205			
Ile	Phe	Pro	Val	Val	Ile	Val	Ile	Ala	Ser	Tyr	Ile	Cys	Val	Ile	Leu
	210					215					220				
Ala	Val	Ile	Lys	Met	Ala	Ser	Ala	Glu	Ser	Arg	His	Lys	Ala	Phe	Ala
225					230					235					240
Thr	Cys	Ser	Ser	His	Val	Met	Val	Val	Val	Ile	Tyr	Tyr	Gly	Ala	Ala
				245					250					255	
Met	Phe	Ile	Tyr	Met	Gln	Pro	Ser	Ser	Ser	Arg	Ser	Pro	Asn	Gln	Asp
		260						265					270		
Lys	Leu	Val	Ser	Ala	Phe	Tyr	Thr	Ile	Leu	Thr	Pro	Leu	Leu	Asn	Pro
		275					280					285			
Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ala	Arg	Ala	Phe	Met	Lys
	290					295					300				
Val	Leu	Arg	Met	Asp	Lys	Ala	Ala	Gly							
305					310										

<210> 1972  
 <211> 320  
 <212> PRT  
 <213> Mus musculus

<400> 1972

Met	Gln	Ile	Ser	Ser	Ser	Ile	Ile	Ser	Pro	Arg	Met	Asn	Cys	Ser	Gln
1				5					10					15	
Ala	Pro	Gly	Phe	Ile	Leu	Leu	Gly	Leu	Pro	Arg	Glu	Pro	Glu	Lys	Trp
			20					25					30		
Gln	His	Phe	Phe	Ile	Ile	Phe	Leu	Gly	Leu	Tyr	Leu	Leu	Gly	Leu	Leu





Ala	Gly	Val	Glu	Ile	Phe	Ile	Leu	Val	Ser	Met	Ala	Leu	Asp	Arg	Tyr
	115						120					125			
Val	Ala	Ile	Val	Lys	Pro	Leu	His	Tyr	Met	Val	Ile	Met	Ser	Arg	Lys
	130					135					140				
Arg	Cys	Asp	Met	Leu	Ile	Val	Thr	Ala	Trp	Ile	Leu	Gly	Phe	Trp	His
145				150					155						160
Ser	Ile	Ala	Leu	Leu	Met	Val	Leu	Ser	Leu	Pro	Phe	Cys	Gly	Pro	
			165					170						175	
Asn	His	Ile	Asn	His	Tyr	Leu	Cys	Asp	Ile	Lys	Pro	Leu	Leu	Lys	Leu
			180					185					190		
Val	Cys	Lys	Asp	Val	His	Val	Val	Ser	Ile	Leu	Ala	Ile	Ala	Asn	Ser
	195						200					205			
Gly	Met	Val	Leu	Phe	Ala	Ile	Phe	Ile	Val	Leu	Leu	Ala	Ser	Tyr	Ile
	210					215					220				
Leu	Ile	Leu	Tyr	Ser	Leu	Arg	Thr	Arg	Ser	Ser	Ala	Gly	Lys	Arg	Lys
225					230				235						240
Ala	Leu	Ser	Thr	Cys	Ser	Ser	His	Ile	Met	Val	Val	Val	Leu	Phe	Phe
				245					250					255	
Gly	Pro	Cys	Ile	Tyr	Ile	Tyr	Ile	Leu	Pro	Ala	Gly	Ser	Glu	Asn	Lys
		260					265						270		
Asp	Lys	Glu	Ile	Ser	Val	Phe	Tyr	Thr	Val	Ile	Ala	Pro	Met	Leu	Asn
	275						280					285			
Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Ser	Glu	Met	Lys	Ser	Ala	Met	His
	290					295				300					
Lys	Val	Trp	Ser	Arg	Leu	Ser	Leu	Arg	Val	Glu	Val	Ser	Glu	Arg	Ile
305					310				315						320
Leu															

<210> 1974  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1974

Met	Glu	Ile	Lys	Asn	Asn	Val	Thr	Glu	Phe	Val	Leu	Leu	Gly	Leu	Thr
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Gln	Asn	Pro	Gln	Leu	Gln	Lys	Ile	Leu	Phe	Val	Val	Phe	Leu	Val	Ile
		20						25				30			
Tyr	Val	Phe	Ser	Val	Ala	Gly	Asn	Leu	Leu	Ile	Leu	Ile	Thr	Ile	Thr
	35					40					45				
Asn	Ser	Gln	Leu	Leu	Gly	Tyr	Pro	Met	Tyr	Tyr	Phe	Leu	Ala	Tyr	Leu
	50				55						60				
Ser	Phe	Ile	Asp	Ala	Cys	Tyr	Ser	Ser	Val	Asn	Thr	Pro	Lys	Leu	Leu
65					70				75					80	
Ala	Asp	Thr	Phe	His	Lys	Arg	Lys	Ser	Ile	Lys	Phe	Asn	Gly	Cys	Met
				85					90					95	
Thr	Gln	Val	Phe	Ala	Glu	His	Phe	Ile	Gly	Gly	Thr	Glu	Val	Ile	Leu
		100						105					110		
Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
	115					120					125				
His	Tyr	Ala	Thr	Ile	Met	Asn	Arg	Arg	Leu	Cys	Asn	Ile	Leu	Val	Gly
	130				135						140				
Val	Ser	Trp	Val	Gly	Gly	Phe	Leu	His	Gly	Gly	Ile	Gln	Ile	Leu	Phe
145					150				155						160
Ile	Ile	Gly	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Phe	Met

				165					170				175				
Cys	Asp	Leu	Asn	Pro	Leu	Leu	Asp	Leu	Ala	Cys	Ile	Asp	Thr	His	Ile		
			180						185				190				
Leu	Gly	Leu	Phe	Val	Ala	Ala	Asn	Ser	Gly	Phe	Ile	Cys	Leu	Leu	Asn		
		195					200					205					
Phe	Leu	Leu	Leu	Val	Ser	Tyr	Leu	Val	Ile	Leu	Asn	Ser	Leu	Arg			
	210					215					220						
Ser	His	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Val	Ser		
	225				230					235					240		
His	Ile	Thr	Val	Val	Val	Leu	Phe	Phe	Val	Leu	Cys	Ile	Phe	Val	Tyr		
			245						250					255			
Met	Arg	Pro	Ala	Ala	Thr	Leu	Pro	Ile	Asp	Lys	Ala	Val	Ala	Leu	Phe		
		260						265					270				
Tyr	Thr	Met	Ile	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg		
	275					280						285					
Asn	Ala	Gln	Met	Lys	Asn	Ala	Ile	Trp	Lys	Leu	Phe	Ser	Val	Lys	Val		
	290					295					300						
Gln	Ser	Asp	Asp	Lys													
	305																

<210> 1975  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1975

Met	Glu	Ile	Lys	Asn	Asn	Val	Thr	Glu	Phe	Val	Leu	Leu	Gly	Leu	Thr		
1				5					10					15			
Gln	Asn	Leu	His	Leu	Gln	Lys	Ile	Val	Phe	Val	Val	Phe	Leu	Val	Ile		
		20						25				30					
Tyr	Val	Phe	Ser	Val	Val	Gly	Asn	Leu	Leu	Ile	Val	Ile	Thr	Ile	Thr		
	35					40					45						
Asn	Ser	Gln	Leu	Leu	Gly	Tyr	Pro	Met	Tyr	Tyr	Phe	Leu	Ala	Tyr	Leu		
	50				55					60							
Ser	Phe	Ile	Asp	Ala	Cys	Tyr	Ser	Ser	Val	Asn	Thr	Pro	Lys	Val	Ile		
65				70					75					80			
Ala	Asp	Ser	Leu	His	Lys	Arg	Lys	Ser	Ile	Lys	Phe	Asn	Gly	Cys	Met		
		85						90					95				
Thr	Gln	Val	Phe	Ala	Glu	His	Phe	Ile	Gly	Gly	Thr	Glu	Val	Ile	Leu		
	100							105				110					
Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu		
	115					120					125						
His	Tyr	Ala	Thr	Ile	Met	Asn	Arg	Gln	Leu	Cys	Asn	Ile	Leu	Val	Gly		
	130				135						140						
Val	Ser	Trp	Val	Gly	Gly	Phe	Leu	His	Gly	Gly	Ile	Gln	Ile	Leu	Phe		
145				150					155					160			
Ile	Ile	Gly	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Phe	Met		
		165						170						175			
Cys	Asp	Leu	Asn	Pro	Leu	Leu	Asp	Leu	Ala	Cys	Ile	Asp	Thr	His	Ile		
	180							185					190				
Leu	Gly	Leu	Phe	Val	Ala	Ala	Asn	Ser	Gly	Phe	Ile	Cys	Leu	Leu	Asn		
	195						200					205					
Phe	Leu	Leu	Leu	Leu	Val	Ser	Tyr	Leu	Val	Ile	Leu	Asn	Ser	Leu	Arg		
	210				215						220						
Ser	His	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Val	Ser		
	225				230					235					240		



305

310

&lt;210&gt; 1977

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 1977

Met	Ala	Ser	Arg	Thr	Tyr	Ser	Met	Glu	Glu	Val	Asn	Asn	Val	Thr	Glu
1				5				10						15	
Phe	Ile	Phe	Leu	Gly	Leu	Ser	Gln	Asn	Pro	Glu	Val	Glu	Lys	Val	Cys
			20					25					30		
Phe	Val	Val	Phe	Ser	Phe	Phe	Tyr	Met	Val	Ile	Leu	Leu	Gly	Asn	Leu
			35				40						45		
Leu	Ile	Met	Leu	Thr	Val	Cys	Ser	Gly	Asn	Leu	Phe	Lys	Phe	Pro	Met
			50			55					60				
Tyr	Phe	Phe	Leu	Asn	Phe	Leu	Ser	Phe	Val	Asp	Ile	Cys	Tyr	Ser	Ser
65				70					75					80	
Val	Thr	Ala	Pro	Lys	Met	Ile	Ile	Asp	Leu	Leu	Val	Lys	Lys	Lys	Thr
				85				90						95	
Ile	Ser	Tyr	Val	Gly	Cys	Met	Leu	Gln	Leu	Phe	Val	Val	His	Phe	Phe
			100					105					110		
Gly	Cys	Thr	Glu	Ile	Phe	Ile	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr
			115				120					125			
Val	Ala	Ile	Cys	Lys	Pro	Leu	His	Tyr	Met	Thr	Ile	Met	Asp	Arg	Glu
			130			135					140				
Arg	Cys	Asn	Lys	Met	Leu	Leu	Gly	Thr	Trp	Ile	Gly	Gly	Phe	Leu	His
145				150					155					160	
Ser	Ile	Ile	Gln	Val	Ala	Leu	Val	Val	Gln	Leu	Pro	Phe	Cys	Gly	Pro
			165					170						175	
Asn	Glu	Ile	Asp	His	Tyr	Phe	Cys	Asp	Val	His	Pro	Val	Leu	Lys	Leu
			180				185						190		
Ala	Cys	Thr	Asp	Thr	Tyr	Ile	Val	Gly	Ile	Phe	Val	Thr	Ala	Asn	Ser
			195			200						205			
Gly	Thr	Ile	Ala	Leu	Gly	Ser	Phe	Val	Ile	Leu	Leu	Ile	Ser	Tyr	Thr
			210			215					220				
Val	Ile	Leu	Met	Ser	Leu	Arg	Lys	Gln	Ser	Ser	Glu	Gly	Arg	Arg	Lys
225				230					235					240	
Ala	Leu	Ser	Thr	Cys	Gly	Ser	His	Ile	Ala	Val	Val	Ile	Ile	Phe	Phe
			245					250						255	
Gly	Pro	Cys	Thr	Phe	Met	Tyr	Met	Arg	Pro	Asp	Thr	Thr	Phe	Ser	Glu
			260				265						270		
Asp	Lys	Met	Val	Ala	Thr	Phe	Tyr	Thr	Ile	Ile	Thr	Pro	Met	Leu	Asn
			275			280						285			
Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Ala	Glu	Val	Lys	Asn	Ala	Met	Arg
			290			295					300				
Lys	Leu	Trp	Ala	Arg	Lys	Phe	Ser	Trp	Glu	Thr	Thr	Gly	Lys		
305				310							315				

&lt;210&gt; 1978

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 1978

Met	Gln	Asn	Gln	Thr	Ile	Val	Thr	Glu	Phe	Val	Leu	Leu	Gly	Leu	Ser
1				5					10					15	
Gln	Asn	Pro	Lys	Val	Glu	Lys	Leu	Leu	Phe	Val	Ile	Phe	Leu	Leu	Leu
		20					25						30		
Tyr	Leu	Ala	Thr	Ile	Gly	Gly	Asn	Met	Thr	Ile	Val	Val	Thr	Ile	Ala
	35					40						45			
Ser	Ser	Pro	Val	Leu	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Phe
	50					55					60				
Leu	Ser	Leu	Leu	Asp	Ala	Cys	Val	Ser	Ser	Ile	Val	Thr	Pro	Lys	Met
65				70						75					80
Ile	Ile	Asp	Leu	Phe	Tyr	Lys	Arg	Lys	Thr	Ile	Ser	Phe	Glu	Cys	Cys
				85					90					95	
Met	Met	Gln	Val	Phe	Ser	Val	His	Phe	Phe	Ser	Ala	Val	Glu	Val	Ile
			100					105					110		
Ile	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro
		115					120					125			
Leu	His	Tyr	Ser	Ser	Ile	Met	Asn	Arg	Arg	Leu	Cys	Gly	Ile	Leu	Val
	130					135					140				
Gly	Ile	Ala	Phe	Ala	Gly	Gly	Phe	Leu	His	Ser	Ile	Ile	Gln	Ile	Ile
145					150					155					160
Phe	Thr	Leu	Gln	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Phe	Ile	Asp	His	Phe
			165						170					175	
Ile	Cys	Asp	Leu	Phe	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Thr	Asp	Thr	His
		180						185					190		
Ile	Phe	Val	Ile	Leu	Val	Phe	Ala	Asn	Ser	Gly	Ser	Ile	Cys	Ile	Ile
	195						200					205			
Ile	Phe	Ser	Phe	Leu	Leu	Val	Ser	Tyr	Val	Val	Ile	Leu	Phe	Ser	Leu
	210					215					220				
Arg	Thr	His	Ser	Ser	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Gly
225					230					235					240
Ser	His	Ile	Thr	Val	Val	Val	Leu	Phe	Phe	Val	Pro	Cys	Ile	Leu	Ile
			245						250					255	
Tyr	Ala	Arg	Pro	Thr	Ser	Pro	Phe	Ser	Leu	Glu	Lys	Asn	Val	Phe	Ile
		260						265					270		
Phe	Ala	Asp	Val	Leu	Thr	Pro	Leu	Leu	Asn	Pro	Val	Val	Tyr	Thr	Phe
	275						280					285			
Arg	Asn	Lys	Glu	Met	Lys	Asn	Ala	Ile	Arg	Lys	Met	Trp	Arg	Ser	Leu
	290					295					300				
Leu	Val	Ala	Pro	Asp	Ile	Leu	Lys								
305					310										

<210> 1979  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1979  

Met	Gln	Leu	Asn	Ile	Asn	Val	Thr	Glu	Val	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Gln	Asp	Pro	Ser	Arg	Lys	Asn	Ile	Val	Phe	Ala	Ile	Phe	Leu	Leu	Phe
		20						25					30		
Tyr	Met	Gly	Thr	Leu	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Val	Thr	Val	Lys
	35					40						45			
Thr	Ser	Gln	Ala	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Phe	Tyr	Leu
	50					55					60				
Ser	Leu	Ser	Asp	Thr	Cys	Phe	Ser	Thr	Thr	Val	Ala	Pro	Arg	Thr	Ile

65					70					75				80
Val	Asp	Ser	Leu	Gln	Lys	Glu	Ala	Ser	Ile	Ser	Phe	Thr	Glu	Cys Ile
				85					90					95
Ile	Gln	Ile	Phe	Thr	Phe	His	Phe	Phe	Gly	Cys	Leu	Glu	Ile	Phe Ile
			100					105					110	
Leu	Ile	Leu	Met	Ala	Val	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro Leu
		115					120					125		
His	Tyr	Met	Thr	Ile	Met	Ser	Arg	Arg	Val	Cys	Gly	Val	Leu	Val Ala
	130					135					140			
Ile	Ala	Trp	Met	Gly	Ser	Cys	Val	His	Ser	Leu	Val	Gln	Ile	Phe Leu
145					150					155				160
Ala	Leu	Ser	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Tyr Phe
				165					170					175
Cys	Asp	Leu	Gln	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr	Tyr Leu
		180					185					190		
Ile	Asn	Leu	Leu	Leu	Val	Ser	Asn	Ser	Gly	Ala	Ile	Cys	Thr	Val Ser
	195					200					205			
Phe	Leu	Val	Leu	Met	Phe	Ser	Tyr	Val	Ile	Ile	Leu	His	Ser	Leu Arg
	210					215					220			
Asn	His	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Ile Ser
225					230					235				240
His	Ile	Ile	Val	Val	Ile	Leu	Phe	Phe	Gly	Pro	Cys	Ile	Phe	Ile Tyr
			245						250					255
Thr	Arg	Pro	Ala	Thr	Thr	Phe	Pro	Met	Asp	Lys	Met	Ile	Ser	Ile Phe
		260					265					270		
Tyr	Ser	Ile	Gly	Thr	Pro	Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu Arg
	275					280					285			
Asn	Ala	Glu	Val	Lys	Asn	Ala	Met	Lys	Lys	Leu	Trp	Arg	Lys	Lys Ile
	290				295					300				
Val	Ser	Asp	Asp	Lys	Lys									
305					310									

<210> 1980  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1980

Met	Ala	Trp	Ser	Asn	His	Ser	Val	Ile	Thr	Glu	Phe	Val	Leu	Thr Gly
1				5					10					15
Leu	Ser	Asp	Asp	Pro	Leu	Ile	Pro	Ala	Leu	Leu	Phe	Ala	Leu	Phe Leu
		20					25						30	
Gly	Ile	Tyr	Val	Leu	Thr	Met	Thr	Gly	Asn	Leu	Thr	Met	Leu	Leu Val
	35					40					45			
Ile	Thr	Ala	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu Ser
	50				55						60			
Asn	Leu	Ser	Phe	Val	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Val	Pro Lys
65				70					75					80
Leu	Leu	Lys	Asp	Leu	Leu	Ser	Ala	Lys	Lys	Thr	Ile	Ser	Ile	Glu Gly
		85						90					95	
Cys	Leu	Ala	Gln	Val	Phe	Phe	Val	Phe	Phe	Ser	Ser	Gly	Thr	Glu Ala
	100						105					110		
Cys	Leu	Leu	Ser	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys His
	115					120					125			
Pro	Leu	Leu	Tyr	Gly	Gln	Val	Met	Arg	Asn	Glu	Leu	Cys	Val	Arg Leu
	130					135					140			

Val	Val	Ile	Ser	Trp	Gly	Val	Ala	Ser	Leu	Asn	Ala	Thr	Ile	Ile	Val
145					150					155					160
Leu	Leu	Ala	Val	Asn	Leu	Asp	Phe	Cys	Gly	Ala	Gln	Thr	Ile	His	His
				165					170					175	
Tyr	Thr	Cys	Glu	Leu	Pro	Ala	Leu	Phe	Pro	Leu	Ser	Cys	Ser	Asp	Ile
			180					185					190		
Ser	Ile	Thr	Val	Val	Val	Leu	Leu	Cys	Ser	Ser	Leu	Leu	His	Gly	Leu
		195					200					205			
Gly	Thr	Phe	Ile	Pro	Ile	Phe	Phe	Ser	Tyr	Ala	Arg	Ile	Val	Ser	Ala
	210					215					220				
Ile	Leu	Ser	Ile	Ser	Ser	Thr	Thr	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Leu	Ala	Ala	Val	Thr	Leu	Phe	Phe	Gly	Ser	Gly	Phe
			245						250					255	
Leu	Cys	Tyr	Leu	Met	Pro	Pro	Ser	Gly	Ser	Ser	Leu	Asp	Leu	Leu	Leu
			260					265					270		
Ser	Leu	Gln	Tyr	Ser	Ala	Val	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr
		275					280					285			
Ser	Leu	Lys	Asn	Gln	Glu	Val	Lys	Ala	Ala	Val	Gln	Arg	Thr	Leu	Arg
	290					295						300			
Lys	Tyr	Leu	Leu												
305															

<210> 1981  
 <211> 306  
 <212> PRT  
 <213> Mus musculus

<400> 1981

Met	Val	Asn	Gln	Ser	Ser	Pro	Val	Val	Phe	Phe	Met	Leu	Gly	Phe	Ser
1				5					10					15	
Glu	His	Pro	Gln	Leu	Glu	Lys	Val	Leu	Phe	Val	Val	Val	Leu	Cys	Ser
			20					25					30		
Tyr	Leu	Leu	Thr	Leu	Leu	Gly	Asn	Thr	Leu	Ile	Leu	Leu	Leu	Ser	Thr
		35				40						45			
Leu	Asp	Pro	Arg	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn	Leu
	50				55					60					
Ser	Phe	Leu	Asp	Leu	Cys	Phe	Thr	Thr	Thr	Cys	Val	Pro	Gln	Met	Leu
65				70					75						80
Phe	Asn	Leu	Trp	Gly	Pro	Ala	Lys	Thr	Ile	Ser	Phe	Leu	Gly	Cys	Phe
			85					90						95	
Val	Gln	Leu	Phe	Ile	Phe	Met	Ser	Leu	Gly	Thr	Thr	Glu	Cys	Ile	Leu
		100						105					110		
Leu	Thr	Val	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Val	Cys	Gln	Pro	Leu
		115				120						125			
His	Tyr	Ala	Thr	Lys	Ile	Asn	Pro	His	Leu	Cys	Arg	Gln	Leu	Ala	Gly
	130				135						140				
Ile	Ala	Trp	Ala	Ile	Gly	Leu	Val	Gln	Ser	Ile	Val	Gln	Thr	Pro	Pro
145				150					155						160
Thr	Leu	Lys	Leu	Pro	Phe	Cys	Ser	Tyr	Arg	Gln	Ile	Asp	Asn	Phe	Leu
			165					170						175	
Cys	Glu	Val	Pro	Ser	Leu	Ile	Gln	Leu	Ser	Cys	Gly	Asp	Thr	Thr	Tyr
		180						185					190		
Asn	Glu	Ile	Gln	Met	Ala	Val	Ala	Ser	Ile	Phe	Ile	Val	Val	Val	Pro
	195					200						205			
Leu	Ser	Leu	Ile	Leu	Val	Ser	Tyr	Gly	Ala	Ile	Ala	Arg	Ala	Val	Leu

210		215		220
Lys Ile Ser Ser Ala	Lys Gly Arg Arg Lys	Ala Phe Gly Thr Cys Ser		
225	230	235	240	
Ser His Leu Ile Val	Thr Leu Phe Tyr Ser	Ser Val Ile Ala Val		
	245	250	255	
Tyr Leu Gln Pro Lys	Asn Pro Tyr Ala Arg	Glu Arg Gly Lys Phe Phe		
	260	265	270	
Gly Leu Phe Tyr Ala	Val Gly Thr Pro Thr	Leu Asn Pro Leu Val Tyr		
	275	280	285	
Thr Leu Arg Asn Lys	Gly Gly Lys Lys Ser	Ile Leu Glu Ala Ala Lys		
	290	295	300	
Glu Arg				
305				

<210> 1982  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1982

Met Gly Gln Arg Ser	Asn Val Thr Glu Phe	Ile Leu Leu Gly Leu Thr
1	5	10
Gln Asp His Val Gly	Gln Arg Ala Leu Phe	Val Met Phe Leu Leu Ile
	20	25
Tyr Ile Val Thr Ile	Val Gly Asn Leu Leu	Ile Val Gly Thr Val Ile
	35	40
Ala Ser Pro Ser Leu	Gly Thr Pro Met Tyr	Phe Phe Leu Ala Tyr Leu
	50	55
Ser Leu Leu Asp Ala	Val Tyr Ser Thr Ala	Ile Ser Pro Lys Leu Met
65	70	75
Val Asp Leu Leu Cys	Asp Arg Lys Thr Ile	Ser Phe Ser Ala Cys Met
	85	90
Thr Gln Leu Phe Leu	Glu His Leu Leu Gly	Gly Ala Glu Val Phe Leu
	100	105
Leu Met Val Met Ala	Tyr Asp Arg Tyr Val	Ala Ile Cys Lys Pro Leu
	115	120
His Tyr Leu Ile Ile	Met Asn Arg Arg Val	Cys Phe Leu Leu Leu Val
	130	135
Val Ser Trp Ala Gly	Gly Leu Ala His Ser	Val Ala Gln Leu Leu Phe
145	150	155
Val Tyr Asn Leu Pro	Phe Cys Gly Pro Asn	Val Ile Asp His Phe Ile
	165	170
Cys Asp Met Tyr Pro	Leu Leu Gly Leu Ala	Cys Thr Asp Thr His Ile
	180	185
Ile Gly Leu Thr Val	Val Ala Asn Gly Gly	Ala Ile Cys Met Leu Val
	195	200
Phe Ile Ile Leu Ile	Ile Ser Tyr Gly Ile	Ile Leu Arg Ser Leu Lys
	210	215
Thr His Ser Gln Glu	Gly Arg Gln Lys Ala	Leu Ser Thr Cys Ser Ser
225	230	235
His Ile Met Val Val	Val Leu Phe Phe Val	Pro Cys Ile Phe Met Tyr
	245	250
Val Arg Pro Val His	Asn Phe Pro Ile Asp	Lys Ser Ile Thr Val Phe
	260	265
Tyr Thr Ile Val Thr	Pro Ile Leu Asn Pro	Leu Ile Tyr Ala Leu Arg
	275	280
		285



Asn	Ser	Glu	Met	Lys	Arg	Ser	Met	Glu	Asn	Leu	Leu	Tyr	Lys	Val	Phe
290						295					300				
Pro	Arg	Asp	Lys	Ile	Thr	Met	Ser	Phe	His						
305					310										

<210> 1983  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1983

Met	Glu	Leu	His	Ser	Pro	Pro	Ser	Asn	Val	Thr	Glu	Phe	Val	Leu	Leu
1				5				10						15	
Gly	Leu	Thr	Gln	Asn	Pro	Arg	Leu	Gln	Lys	Ile	Leu	Phe	Ile	Val	Phe
			20					25					30		
Leu	Phe	Val	Phe	Leu	Phe	Thr	Val	Leu	Ala	Asn	Leu	Leu	Ile	Val	Leu
		35					40					45			
Thr	Ile	Ser	Phe	Ser	Pro	Thr	Leu	Ser	Ala	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Thr	Tyr	Leu	Ser	Phe	Ile	Asp	Ala	Phe	Tyr	Thr	Ser	Val	Thr	Thr	Pro
65					70					75					80
Lys	Met	Ile	Ile	Asp	Leu	Leu	Tyr	Gln	Arg	Arg	Thr	Ile	Ser	Leu	Ala
				85					90					95	
Gly	Cys	Leu	Thr	Gln	Leu	Phe	Val	Glu	His	Phe	Leu	Gly	Gly	Ser	Glu
			100					105					110		
Ile	Ile	Leu	Leu	Ile	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
		115					120					125			
Lys	Pro	Leu	His	Tyr	Met	Thr	Ile	Met	Arg	Gln	Gly	Leu	Cys	Arg	Leu
	130					135					140				
Leu	Val	Val	Val	Ala	Trp	Ile	Gly	Gly	Ile	Leu	His	Ala	Thr	Met	Gln
145					150					155					160
Ile	Phe	Phe	Met	Ile	Asn	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp
			165						170					175	
His	Phe	Met	Cys	Asp	Leu	Phe	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Arg	Asp
		180						185					190		
Thr	His	Lys	Leu	Gly	Ile	Ile	Val	Ala	Ala	Asn	Ser	Gly	Ala	Met	Cys
	195						200					205			
Phe	Leu	Ile	Phe	Thr	Met	Leu	Leu	Ile	Ser	Tyr	Ile	Val	Ile	Leu	Arg
	210					215					220				
Ser	Leu	Lys	Ser	His	Ser	Ser	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Phe	Thr	Val	Val	Val	Leu	Phe	Phe	Val	Pro	Cys	Ile
			245						250					255	
Phe	Thr	Tyr	Met	Arg	Pro	Val	Thr	Thr	Tyr	Pro	Val	Asp	Lys	Leu	Val
		260						265					270		
Thr	Val	Phe	Phe	Ala	Ile	Leu	Thr	Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr
	275						280					285			
Thr	Ala	Arg	Asn	Thr	Glu	Val	Lys	Asn	Ala	Met	Arg	Asn	Leu	Leu	Lys
	290					295					300				
Arg	Gln	Val	Thr	Tyr	Pro	Val	Leu	Lys							
305					310										

<210> 1984  
 <211> 316  
 <212> PRT

<213> Mus musculus

<400> 1984

Met	Glu	Pro	Trp	Asn	Ser	Thr	Leu	Gly	Ser	Gly	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Ile	Leu	Asp	Gly	Ser	Gly	Ser	Pro	Glu	Leu	Leu	Cys	Ala	Thr	Ile	Ala
		20						25					30		
Ala	Leu	Tyr	Met	Leu	Ala	Leu	Ile	Ser	Asn	Gly	Met	Leu	Ile	Leu	Val
		35					40					45			
Ile	Thr	Met	Asp	Ile	Tyr	Leu	His	Val	Pro	Met	Tyr	Leu	Leu	Leu	Glu
	50					55					60				
Gln	Leu	Ser	Leu	Met	Asp	Leu	Leu	Leu	Ala	Ser	Val	Ile	Ser	Pro	Lys
65					70					75					80
Ala	Val	Met	Asp	Phe	Leu	Leu	Lys	Asp	Asn	Thr	Ile	Thr	Phe	Gly	Gly
				85					90					95	
Cys	Ala	Leu	Gln	Met	Phe	Leu	Glu	Leu	Ala	Leu	Gly	Ser	Ala	Glu	Asp
			100					105					110		
Leu	Leu	Leu	Ala	Phe	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
		115				120						125			
Pro	Leu	Asn	Tyr	Met	Ile	Phe	Met	Arg	Pro	Ser	Ile	Cys	Trp	Leu	Met
	130					135					140				
Val	Ala	Ile	Ser	Trp	Ile	Pro	Ala	Ser	Leu	Ser	Ala	Leu	Gly	Tyr	Thr
145					150					155					160
Ile	Tyr	Thr	Met	Gln	Tyr	Pro	Phe	Cys	Lys	Ser	Arg	Glu	Ile	Arg	His
				165					170					175	
Leu	Phe	Cys	Glu	Ile	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr
			180					185					190		
Ser	Arg	Tyr	Gln	Leu	Met	Val	Tyr	Leu	Met	Gly	Val	Thr	Leu	Leu	Ile
		195					200					205			
Pro	Pro	Leu	Ala	Ala	Ile	Leu	Ala	Ser	Tyr	Ser	Leu	Ile	Leu	Phe	Thr
	210					215					220				
Val	Leu	Lys	Met	Pro	Ser	Asn	Glu	Gly	Arg	Lys	Lys	Ala	Leu	Val	Thr
225					230					235					240
Cys	Ser	Ser	His	Leu	Thr	Val	Val	Gly	Met	Tyr	Tyr	Gly	Pro	Leu	Thr
				245					250					255	
Val	Met	Tyr	Ile	Leu	Pro	Ser	Ser	Tyr	His	Ser	Ser	Lys	Gln	Glu	Asn
			260					265					270		
Ile	Leu	Ser	Phe	Leu	Tyr	Thr	Ile	Val	Thr	Pro	Ala	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ser	Gly	Ala	Leu	Lys	Arg	Val
	290				295						300				
Leu	Gly	Lys	Arg	Leu	Leu	Ser	Thr	His	Pro	Asn	Phe				
305					310					315					

<210> 1985

<211> 315

<212> PRT

<213> Mus musculus

<400> 1985

Met	Glu	Val	Cys	Asn	Ser	Thr	Leu	Gly	Ser	Gly	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Ile	Leu	Asp	Asp	Ser	Gly	Phe	Pro	Glu	Leu	Leu	Cys	Ala	Thr	Ile	Thr
		20						25					30		
Ala	Leu	Tyr	Phe	Leu	Ala	Ile	Thr	Ser	Asn	Gly	Leu	Leu	Leu	Val	
		35					40					45			

Ile	Thr	Met	Asp	Ala	Arg	Leu	His	Val	Pro	Met	Tyr	Leu	Leu	Leu	Trp
50						55					60				
Gln	Leu	Ser	Leu	Met	Asp	Leu	Leu	Leu	Thr	Ser	Val	Ile	Thr	Pro	Lys
65					70					75					80
Ala	Ile	Leu	Asp	Tyr	Leu	Leu	Lys	Asp	Asn	Thr	Ile	Ser	Phe	Gly	Gly
				85					90					95	
Cys	Ala	Leu	Gln	Met	Phe	Leu	Glu	Leu	Thr	Leu	Gly	Ser	Ala	Glu	Asp
			100					105					110		
Leu	Leu	Leu	Ala	Phe	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	Asn	Tyr	Thr	Ile	Leu	Met	Ser	Gln	Lys	Val	Cys	Cys	Leu	Met
	130					135					140				
Ile	Ala	Thr	Ser	Trp	Ile	Leu	Ala	Ser	Leu	Ser	Ala	Leu	Gly	Tyr	Ser
145					150					155					160
Ile	Tyr	Thr	Met	Gln	Tyr	Pro	Phe	Cys	Lys	Ser	Arg	Gln	Ile	Arg	His
				165					170					175	
Leu	Phe	Cys	Glu	Ile	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr
			180					185					190		
Ser	Thr	Tyr	Glu	Leu	Met	Val	Tyr	Val	Met	Gly	Val	Thr	Leu	Leu	Ile
		195					200					205			
Pro	Pro	Leu	Ala	Ala	Ile	Leu	Ala	Ser	Tyr	Ser	Leu	Ile	Leu	Phe	Thr
	210					215					220				
Val	Leu	His	Met	Pro	Ser	Asn	Glu	Gly	Arg	Lys	Lys	Ala	Leu	Val	Thr
225					230					235					240
Cys	Ser	Ser	His	Leu	Thr	Val	Val	Gly	Met	Trp	Tyr	Gly	Gly	Ala	Ile
				245					250					255	
Val	Met	Tyr	Val	Leu	Pro	Ser	Ser	Phe	His	Ser	Pro	Lys	Gln	Asp	Asn
			260					265					270		
Ile	Ser	Ser	Val	Phe	Tyr	Thr	Ile	Phe	Thr	Pro	Ala	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Thr	Gly	Ala	Leu	Arg	Arg	Val
	290				295						300				
Leu	Gly	Lys	Arg	Phe	Ser	Val	Gln	Ser	Thr	Phe					
305					310					315					

<210> 1986  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1986

Met	Leu	Met	Ile	Gln	Trp	Asn	Asn	Trp	Thr	Arg	Asn	Ser	Asp	Phe	Ile
1				5					10					15	
Leu	Leu	Gly	Leu	Phe	Asp	His	Ser	Pro	Leu	His	Thr	Phe	Phe	Phe	Ser
			20					25					30		
Leu	Ile	Leu	Gly	Ile	Phe	Phe	Met	Ala	Phe	Ile	Gly	Asn	Ser	Ile	Met
		35					40					45			
Val	Ile	Leu	Ile	Tyr	Leu	Asp	Ala	His	Leu	His	Thr	Pro	Met	Tyr	Ile
	50					55					60				
Leu	Leu	Ser	Gln	Leu	Ser	Leu	Met	Asp	Leu	Met	Leu	Ile	Cys	Thr	Thr
65					70					75					80
Val	Pro	Gln	Met	Ala	Phe	Asn	Phe	Leu	Ser	Gly	Asn	Lys	Ser	Ile	Ser
				85					90					95	
Met	Val	Gly	Cys	Gly	Ile	Gln	Ile	Phe	Phe	Tyr	Val	Ser	Leu	Leu	Gly
			100					105					110		
Ala	Glu	Cys	Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala



Asn	Gln	Leu	Glu	Leu	Met	Val	Ser	Ala	Asn	Ser	Gly	Phe	Ile	Ser	Val
	195						200					205			
Gly	Ser	Phe	Phe	Ile	Leu	Val	Ile	Ser	Tyr	Ile	Val	Ile	Ile	Val	Thr
	210					215					220				
Val	Gln	Lys	His	Ser	Ser	Ser	Gly	Ser	Ser	Lys	Ala	Leu	Ser	Thr	Leu
225					230					235					240
Ser	Ala	His	Ile	Ser	Val	Val	Val	Leu	Phe	Phe	Gly	Pro	Leu	Ile	Phe
			245						250					255	
Val	Tyr	Thr	Trp	Pro	Ser	Pro	Ser	Thr	His	Leu	Asp	Lys	Tyr	Leu	Ala
			260					265					270		
Ile	Phe	Asp	Ala	Val	Gly	Thr	Pro	Phe	Leu	Asn	Pro	Val	Ile	Tyr	Thr
		275					280					285			
Leu	Arg	Asn	Gln	Asp	Met	Lys	Thr	Ala	Met	Lys	Arg	Val	Cys	Arg	Gln
	290					295					300				
Leu	Leu	Lys	Tyr	Gly	Lys	Ile	Ser								
305						310									

<210> 1988  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1988

Met	Gly	Glu	Ala	Asn	Cys	Ser	Val	Val	Ser	Glu	Phe	Val	Phe	Leu	Gly
1				5					10					15	
Leu	Ser	Asn	Ser	Trp	Ala	Ile	Gln	Leu	Phe	Leu	Phe	Phe	Phe	Ser	Cys
		20					25					30			
Ile	Phe	Tyr	Val	Ala	Ser	Leu	Leu	Gly	Asn	Phe	Leu	Ile	Val	Leu	Thr
	35					40					45				
Val	Thr	Ser	Asp	Pro	Gln	Leu	Gln	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Gly
	50				55					60					
Asn	Leu	Ser	Ile	Ile	Asp	Leu	Ile	Phe	Cys	Ser	Ser	Thr	Thr	Pro	Lys
65					70				75					80	
Met	Ile	Tyr	Asp	Leu	Phe	Arg	Arg	His	Lys	Thr	Ile	Ser	Phe	Gly	Gly
			85					90					95		
Cys	Ile	Thr	Gln	Ile	Phe	Phe	Ile	His	Ala	Val	Gly	Gly	Thr	Glu	Met
		100					105					110			
Val	Leu	Leu	Ile	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
	115					120					125				
Pro	Leu	His	Tyr	Leu	Thr	Ile	Met	Ser	Pro	Gln	Lys	Cys	Ile	Leu	Ile
	130				135					140					
Leu	Val	Ala	Ser	Trp	Ile	Ile	Gly	Phe	Ile	His	Ser	Val	Thr	Gln	Leu
145				150					155					160	
Ser	Phe	Val	Val	Asp	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Glu	Leu	Asp	Ser
			165					170					175		
Phe	Phe	Cys	Asp	Leu	Pro	Arg	Phe	Ile	Lys	Leu	Ala	Cys	Val	Asp	Thr
		180					185					190			
Tyr	Thr	Leu	Gly	Phe	Met	Val	Thr	Ala	Asn	Ser	Gly	Phe	Ile	Ser	Val
	195					200					205				
Ala	Ser	Phe	Leu	Ile	Leu	Ile	Ile	Ser	Tyr	Ile	Phe	Ile	Leu	Val	Thr
	210				215						220				
Val	Gln	Lys	Lys	Ser	Leu	Gly	Ser	Leu	Gly	Lys	Ala	Leu	Ser	Thr	Leu
225				230					235					240	
Ser	Ala	His	Val	Ile	Val	Val	Val	Leu	Phe	Phe	Gly	Pro	Leu	Ile	Phe
			245					250					255		
Phe	Tyr	Thr	Trp	Pro	Phe	Pro	Thr	Ser	His	Leu	Asp	Lys	Phe	Leu	Ala



<210> 1990  
 <211> 320  
 <212> PRT  
 <213> Mus musculus

<400> 1990

Met	Met	Ile	Leu	Met	Ser	Glu	Ala	Met	Tyr	Gly	Met	Asn	Cys	Ser	Val
1				5					10					15	
Val	Ser	Glu	Phe	Val	Phe	Leu	Gly	Ile	Thr	Asn	Ile	Trp	Glu	Val	Gln
		20						25					30		
Phe	Leu	Leu	Phe	Phe	Phe	Thr	Leu	Leu	Phe	Tyr	Phe	Ala	Ser	Met	Ile
		35					40					45			
Gly	Asn	Leu	Val	Ile	Val	Leu	Thr	Val	Thr	Leu	Asp	Pro	His	Leu	Asn
	50					55					60				
Ser	Pro	Leu	Tyr	Phe	Leu	Leu	Ala	Asn	Leu	Ser	Val	Ile	Asp	Met	Ile
65					70					75					80
Phe	Cys	Ser	Ile	Thr	Ala	Pro	Lys	Met	Ile	Cys	Asp	Ile	Phe	Lys	Lys
				85					90					95	
His	Lys	Thr	Ile	Ser	Phe	Trp	Gly	Cys	Ile	Thr	Gln	Ile	Phe	Phe	Ser
			100					105					110		
His	Ala	Val	Gly	Gly	Thr	Glu	Met	Val	Leu	Leu	Ile	Ala	Met	Ala	Phe
		115					120					125			
Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	His	Tyr	Leu	Ile	Ile	Met
	130					135					140				
Ser	Pro	Arg	Val	Cys	Leu	Phe	Phe	Leu	Ile	Thr	Ser	Trp	Val	Ile	Gly
145					150					155					160
Leu	Ile	His	Ser	Val	Val	Gln	Leu	Val	Phe	Val	Val	Asp	Leu	Pro	Phe
				165					170					175	
Cys	Gly	Pro	Asn	Thr	Leu	Asp	Ser	Phe	Tyr	Cys	Asp	Leu	Pro	Arg	Leu
			180					185					190		
Leu	Arg	Leu	Ala	Cys	Thr	Asn	Thr	Gln	Glu	Leu	Glu	Leu	Met	Val	Thr
		195					200					205			
Val	Asn	Ser	Gly	Leu	Ile	Ser	Val	Gly	Ser	Phe	Leu	Leu	Leu	Val	Ile
	210					215					220				
Ser	Tyr	Ile	Phe	Ile	Leu	Phe	Thr	Val	Trp	Lys	His	Ser	Ser	Cys	Gly
225					230					235					240
Leu	Ser	Lys	Ala	Leu	Ser	Thr	Leu	Ser	Ala	His	Ile	Thr	Val	Val	Ile
			245						250					255	
Leu	Phe	Phe	Gly	Pro	Leu	Met	Phe	Phe	Tyr	Thr	Trp	Pro	Ser	Pro	Thr
		260					265						270		
Ser	His	Leu	Asp	Lys	Tyr	Leu	Ala	Ile	Phe	Asp	Ala	Phe	Ile	Thr	Pro
		275					280					285			
Phe	Leu	Asn	Pro	Val	Ile	Tyr	Thr	Phe	Arg	Asn	Lys	Asp	Met	Lys	Val
	290					295					300				
Ala	Met	Gly	Arg	Leu	Trp	Gly	Tyr	Leu	Arg	His	Tyr	Arg	Lys	Met	Ser
305					310					315					320

<210> 1991  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1991

Met	Gly	Asn	Gly	Thr	Thr	Val	Gln	Glu	Phe	Thr	Leu	Glu	Gly	Phe	Pro
1				5					10					15	
Ala	Val	Gln	His	Leu	Gly	Arg	Leu	Leu	Phe	Ser	Leu	Asn	Leu	Leu	Ala





His	Ser	Cys	Val	Phe	Gln	Leu	Tyr	Ile	Ser	Leu	Ala	Leu	Gly	Gly	Ser	
			100					105					110			
Glu	Phe	Phe	Leu	Leu	Gly	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Val	
		115					120					125				
Cys	His	Pro	Leu	His	Tyr	Thr	Val	Ile	Met	Asp	Gly	Gly	Val	Cys	Leu	
	130					135					140					
Gly	Leu	Ala	Ala	Ser	Cys	Leu	Met	Ala	Gly	Phe	Phe	Asn	Ser	Leu	Met	
145					150					155					160	
Glu	Thr	Val	Ile	Thr	Phe	Arg	Leu	Pro	Leu	Cys	His	Asn	Val	Ile	Asn	
			165						170					175		
His	Phe	Ala	Cys	Glu	Thr	Leu	Ala	Val	Leu	Arg	Leu	Ala	Cys	Val	Asp	
			180					185					190			
Ile	Ser	Phe	Asn	Lys	Val	Met	Val	Ala	Ile	Ser	Gly	Phe	Leu	Val	Ile	
	195					200						205				
Met	Leu	Pro	Cys	Cys	Leu	Val	Leu	Phe	Ser	Tyr	Thr	Arg	Ile	Val	Ile	
	210					215					220					
Ala	Ile	Leu	Arg	Ile	Arg	Ser	Thr	Gln	Gly	Arg	His	Lys	Ala	Phe	Gly	
225					230					235					240	
Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Cys	Met	Cys	Phe	Gly	Ala	Thr	
				245					250					255		
Ile	Phe	Thr	Tyr	Leu	Gly	Pro	Arg	Ser	Ala	Ser	Ser	Glu	Asp	Lys	Glu	
		260					265						270			
Lys	Met	Val	Ala	Leu	Phe	Tyr	Ala	Val	Val	Ala	Pro	Thr	Leu	Asn	Pro	
	275					280					285					
Val	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Met	Ala	Ala	Leu	Thr	Lys	
	290					295					300					
Leu	Val	Glu	Lys	Leu	Arg											
305					310											

<210> 1993  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1993

Met	Lys	Arg	Asp	Asn	Ala	Thr	Trp	Val	Ser	Glu	Phe	Ile	Leu	Met	Gly	
1				5					10					15		
Leu	Ser	Ser	Asp	Lys	His	Ile	Gln	Ala	Gly	Leu	Phe	Val	Leu	Phe	Gly	
			20					25					30			
Val	Thr	Tyr	Leu	Leu	Thr	Leu	Leu	Gly	Asn	Gly	Leu	Ile	Val	Leu	Leu	
	35					40						45				
Ile	Ala	Leu	Asp	Pro	Arg	Leu	His	Leu	Pro	Met	Tyr	Phe	Phe	Leu	Cys	
	50					55					60					
His	Leu	Ser	Val	Val	Asp	Ile	Cys	Tyr	Thr	Ser	Ser	Gly	Val	Pro	Gln	
65					70					75					80	
Met	Leu	Ala	His	Phe	Leu	Met	Glu	Lys	Lys	Thr	Ile	Ser	Phe	Ala	Leu	
			85						90					95		
Cys	Gly	Thr	Gln	His	Phe	Phe	Ala	Leu	Ala	Leu	Gly	Gly	Thr	Glu	Phe	
			100					105					110			
Leu	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys	Asn	
			115					120					125			
Pro	Leu	Arg	Tyr	Thr	Val	Val	Met	Asn	Pro	Arg	Leu	Cys	Met	Gly	Leu	
	130					135					140					
Ala	Gly	Val	Ser	Trp	Phe	Val	Gly	Val	Val	Asn	Ser	Ala	Val	Glu	Thr	
145					150					155					160	
Ala	Val	Thr	Met	Arg	Leu	Pro	Thr	Cys	Gly	His	Asn	Val	Leu	Asn	His	





305

310

<210> 1996  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1996  
 Met Gly Thr Gly Asn His Ser Val Thr Val Val Phe Val Leu Val Gly  
 1 5 10 15  
 Leu Thr Gln Gln Pro Glu Leu Leu Leu Pro Leu Phe Ile Leu Phe Leu  
 20 25 30  
 Gly Ile Tyr Val Val Thr Ala Val Gly Asn Leu Gly Met Ile Leu Leu  
 35 40 45  
 Ile Thr Val Ser Pro Leu Leu His Thr Pro Met Tyr Tyr Phe Leu Ser  
 50 55 60  
 Ser Leu Ser Cys Val Asp Leu Cys Tyr Ser Thr Val Ile Thr Pro Lys  
 65 70 75 80  
 Met Leu Val Asn Phe Leu Gly Lys Lys Asn Leu Ile Val Tyr Ser Glu  
 85 90 95  
 Cys Met Ala Gln Leu Phe Phe Phe Val Ile Phe Val Val Ala Glu Gly  
 100 105 110  
 Tyr Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Arg  
 115 120 125  
 Pro Leu Leu Tyr Asn Val Ile Met Ser Ser Arg Leu Cys Ser Leu Leu  
 130 135 140  
 Val Leu Val Ala Phe Ile Leu Gly Phe Val Ser Ala Leu Ala His Thr  
 145 150 155 160  
 Ser Ala Met Met Asn Leu Ser Phe Cys Lys Ser His Val Ile Ser His  
 165 170 175  
 Tyr Phe Cys Asp Val Leu Pro Leu Leu Asn Leu Ser Cys Ser Asp Ile  
 180 185 190  
 Lys Leu Asn Glu Leu Leu Leu Phe Ile Ile Ala Gly Phe Asn Thr Leu  
 195 200 205  
 Val Pro Thr Leu Ala Val Ala Ile Ser Tyr Val Phe Ile Phe Cys Ser  
 210 215 220  
 Ile Leu His Ile Lys Ser Ser Lys Gly Arg Ser Lys Ala Phe Gly Thr  
 225 230 235 240  
 Cys Ser Ser His Leu Met Ala Val Gly Ile Phe Phe Gly Ser Ile Thr  
 245 250 255  
 Phe Met Tyr Phe Lys Pro Pro Ser Ser Asn Ser Leu Glu Gln Glu Lys  
 260 265 270  
 Val Ser Ser Val Phe Tyr Thr Thr Val Ile Pro Met Leu Asn Pro Leu  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Lys Ala Leu Gly Lys Cys  
 290 295 300  
 Leu Ala Gly Arg  
 305

<210> 1997  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1997

Met	Gln	Val	Gln	Met	Ala	Asp	Thr	Asn	His	Ser	Thr	Val	Thr	Glu	Phe
1				5					10					15	
Ile	Leu	Ala	Gly	Leu	Thr	Asp	Lys	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe
			20					25					30		
Leu	Leu	Phe	Leu	Gly	Ile	Tyr	Leu	Leu	Thr	Val	Leu	Gly	Asn	Leu	Gly
		35					40					45			
Met	Ile	Ile	Leu	Ile	Leu	Leu	Ser	Ser	His	Leu	His	Thr	Pro	Met	Tyr
	50					55					60				
Phe	Phe	Leu	Ser	Ser	Leu	Ser	Phe	Ile	Asp	Leu	Cys	Tyr	Ser	Thr	Val
65					70				75						80
Ile	Thr	Pro	Lys	Met	Leu	Val	Asn	Phe	Val	Ala	Lys	Lys	Asn	Val	Ile
				85					90					95	
Ser	Tyr	Glu	Glu	Cys	Met	Thr	Gln	Leu	Tyr	Phe	Phe	Leu	Ala	Phe	Val
			100					105					110		
Ile	Ser	Glu	Cys	His	Met	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val
		115					120					125			
Ala	Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Asn	Val	Thr	Met	Ser	Tyr	Gln	Ile
						135					140				
Cys	Ser	Trp	Met	Val	Gly	Gly	Val	Tyr	Gly	Met	Gly	Leu	Ile	Gly	Ala
145					150				155						160
Ala	Val	His	Thr	Leu	Cys	Met	Leu	Arg	Val	Val	Phe	Cys	Lys	Ala	Asn
				165					170					175	
Ile	Ile	Asn	His	Tyr	Phe	Cys	Asp	Leu	Phe	Pro	Leu	Met	Glu	Leu	Ala
		180					185						190		
Cys	Ser	Ser	Thr	Tyr	Val	Asn	Glu	Val	Val	Leu	Leu	Cys	Leu	Ser	Ala
		195				200						205			
Phe	Asn	Ile	Phe	Ile	Pro	Thr	Leu	Thr	Ile	Leu	Gly	Ser	Tyr	Ile	Phe
	210					215					220				
Ile	Ile	Ile	Ser	Ile	Leu	Arg	Ile	Lys	Ser	Thr	Glu	Gly	Arg	Phe	Lys
225					230					235					240
Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Phe	Ser	Ala	Val	Ser	Val	Phe	Phe
				245					250					255	
Gly	Ser	Leu	Ala	Phe	Met	Tyr	Leu	Gln	Pro	Phe	Ser	Val	Ser	Ser	Lys
			260					265					270		
Asp	Lys	Gly	Lys	Val	Ser	Ser	Val	Phe	Tyr	Thr	Thr	Ile	Val	Pro	Met
		275					280					285			
Leu	Asn	Pro	Met	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Val	Lys	Leu	Ala
	290					295					300				
Leu	Asn	Lys	Leu	Phe	Gln	Lys	Lys	Phe	His	Val					
305					310					315					

<210> 1998

<211> 311

<212> PRT

<213> Mus musculus

<400> 1998

Met	Ala	Thr	Gly	Asn	Tyr	Cys	Met	Leu	Pro	Glu	Phe	Ile	Leu	Thr	Gly
1				5					10					15	
Leu	Ser	Lys	Lys	Pro	Gln	Leu	Gln	Met	Pro	Leu	Phe	Leu	Leu	Phe	Leu
			20					25					30		
Gly	Ile	Tyr	Val	Val	Thr	Val	Val	Gly	Asn	Leu	Gly	Met	Ile	Thr	Leu
		35					40					45			
Ile	Lys	Leu	Ser	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Ser
	50					55					60				
Ser	Leu	Ser	Phe	Ile	Asp	Leu	Cys	His	Ser	Thr	Val	Ile	Thr	Pro	Lys

65					70					75					80
Met	Leu	Val	Asn	Phe	Val	Ile	Glu	Lys	Asn	Ile	Ile	Ser	Tyr	Thr	Gly
				85					90					95	
Cys	Met	Ala	Gln	Leu	Tyr	Phe	Phe	Leu	Ile	Phe	Ala	Ile	Ala	Glu	Cys
			100					105					110		
His	Met	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
		115					120					125			
Pro	Leu	Leu	Tyr	Asn	Val	Thr	Met	Ser	Tyr	Gln	Ile	Tyr	Thr	Ser	Leu
	130					135					140				
Ile	Phe	Gly	Val	Tyr	Ile	Ile	Gly	Val	Val	Cys	Ala	Ser	Ala	His	Thr
145					150					155					160
Gly	Phe	Met	Ile	Arg	Ile	Gln	Phe	Cys	Asn	Leu	Glu	Val	Ile	Asn	His
				165					170					175	
Tyr	Phe	Cys	Asp	Leu	Leu	Pro	Leu	Leu	Glu	Leu	Ala	His	Ser	Ser	Thr
			180					185				190			
Tyr	Val	Asn	Glu	Leu	Leu	Val	Leu	Cys	Phe	Gly	Thr	Phe	Asn	Ile	Val
		195					200				205				
Val	Pro	Thr	Met	Thr	Ile	Leu	Thr	Ser	Tyr	Ile	Phe	Ile	Ile	Ala	Asn
	210					215					220				
Ile	Leu	Arg	Ile	Arg	Ser	Thr	Gly	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Ile	Leu	Ala	Val	Ala	Val	Phe	Phe	Gly	Ser	Ala	Ala
			245						250					255	
Phe	Met	Tyr	Leu	Gln	Pro	Ser	Ser	Val	Ser	Ser	Met	Asp	Gln	Gly	Lys
			260					265				270			
Val	Ser	Ser	Val	Phe	Tyr	Thr	Ile	Val	Val	Pro	Met	Leu	Asn	Pro	Leu
		275					280				285				
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Ser	Val	Ala	Leu	Lys	Lys	Ile
	290				295					300					
Leu	Glu	Arg	Lys	Leu	Phe	Met									
305					310										

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Met	Glu	Glu	Ile	Asn	Asp	Thr	Ser	Val	Ala	Glu	Phe	Ile	Leu	Thr	Gly
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Leu	Thr	Glu	Asn	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Leu	Ile	Phe	Leu
			20				25					30			
Ala	Val	Tyr	Leu	Val	Thr	Val	Val	Gly	Asn	Leu	Gly	Met	Ile	Val	Leu
	35					40					45				
Ile	Leu	Ile	Ser	Ser	Gln	Leu	His	Thr	Pro	Met	Tyr	Tyr	Leu	Leu	Arg
	50				55					60					
Ser	Leu	Ser	Phe	Ile	Asp	Cys	Cys	Gln	Ser	Thr	Val	Ile	Ile	Pro	Lys
65				70				75						80	
Met	Leu	Leu	Asn	Phe	Val	Thr	Glu	Met	Asn	Ile	Ile	Ser	Tyr	Pro	Gln
			85					90					95		
Cys	Ile	Ala	Gln	Phe	Tyr	Phe	Phe	Cys	Ala	Phe	Ala	Val	Ser	Glu	Cys
		100					105					110			
His	Met	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Ser	Asn
	115					120					125				
Pro	Leu	Leu	Tyr	Asn	Val	Thr	Met	Ser	Tyr	Gln	Val	Cys	Ser	Leu	Met
	130					135					140				

Val	Ala	Val	Val	Tyr	Gly	Ile	Gly	Leu	Ile	Ser	Ala	Thr	Ala	His	Thr
145					150					155					160
Val	Phe	Leu	Leu	Arg	Val	Leu	Phe	Cys	Lys	Ser	Asp	Ile	Ile	Asn	His
				165					170						175
Tyr	Phe	Cys	Asp	Leu	Phe	Pro	Leu	Leu	Glu	Leu	Ser	Cys	Ser	Ser	Thr
			180					185					190		
Tyr	Ile	Asn	Glu	Val	Leu	Ala	Leu	Ser	Phe	Ser	Ala	Phe	Asn	Ile	Ile
		195					200					205			
Val	Pro	Ala	Leu	Thr	Ile	Leu	Ser	Ser	Tyr	Ile	Phe	Ile	Ile	Val	Ser
	210						215				220				
Val	Leu	His	Ile	Gln	Ser	Thr	Gly	Gly	Arg	Val	Lys	Ala	Phe	Arg	Thr
225						230				235					240
Cys	Ser	Ser	His	Ile	Met	Ala	Val	Ala	Ile	Phe	Phe	Gly	Ser	Thr	Val
				245					250					255	
Phe	Met	Tyr	Leu	Gln	Pro	Ser	Ser	Val	Ser	Ser	Met	Asp	Gln	Gly	Lys
			260					265					270		
Val	Ser	Ser	Val	Phe	Tyr	Thr	Ile	Val	Val	Pro	Met	Leu	Asn	Pro	Leu
			275				280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Arg	Val	Ser	Leu	Lys	Lys	Leu
	290					295					300				
Leu	Gln	Lys	Ile	Ser	Phe	Leu	Lys	Thr	Lys	Asn					
305					310					315					

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Met	Glu	Glu	Lys	Asn	Gln	Thr	Val	Met	Pro	Glu	Phe	Leu	Phe	Leu	Gly
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Ile	Thr	Asp	Asn	Phe	His	Gln	Lys	Ile	Val	Ile	Phe	Ile	Ile	Phe	Phe
			20					25					30		
Phe	Val	Tyr	Leu	Val	Thr	Leu	Gly	Gly	Asn	Val	Gly	Met	Ile	Ala	Leu
			35				40					45			
Ile	Trp	Leu	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Gln	Leu	Ser	Phe	Val	Asp	Val	Ser	Ser	Ser	Ser	Ile	Ala	Pro	Lys	
65					70				75					80	
Met	Leu	Cys	Asp	Ile	Phe	Ala	Arg	Asn	Lys	Ala	Ile	Ser	Phe	Val	Gly
				85					90					95	
Cys	Ala	Ala	Gln	Met	Trp	Phe	Phe	Gly	Leu	Phe	Val	Ala	Thr	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Lys
			115				120					125			
Pro	Leu	Leu	Tyr	Thr	Leu	Ile	Met	Ser	Pro	His	Leu	Ser	Val	Leu	Leu
			130				135					140			
Val	Ile	Gly	Pro	Tyr	Ala	Ile	Ala	Leu	Ile	Ser	Thr	Thr	Thr	His	Thr
145					150					155					160
Thr	Leu	Thr	Phe	Cys	Leu	Pro	Phe	Cys	Gly	Pro	Tyr	Ile	Ile	Asn	His
				165					170					175	
Phe	Phe	Cys	Asp	Ile	Ser	Pro	Leu	Leu	Ser	Leu	Ala	Cys	Ser	Asp	Thr
			180					185				190			
His	Ile	Asn	Lys	Leu	Val	Leu	Phe	Val	Leu	Ala	Gly	Thr	Val	Gly	Val
		195					200					205			
Leu	Ser	Gly	Leu	Ile	Ile	Leu	Val	Ser	Tyr	Val	Cys	Ile	Leu	Lys	Ala